### 620, 720 and 725 Loaders





John Deere Welland Works

OMW43427 Issue C5

(This manual replaces OMW40665 Issue I3)

### Introduction

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification section. Accurately record all the numbers to help in tracing the machine should

it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.



620 Loader

91

WX,W43427,IFC -19-06FEB99



720 Loader



725 Loader

-UN-08JUL92

MODES

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

OMW43427 C5-19-06FEB95

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### Safety

#### RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX.ALERT

-19-03MAR93

#### UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

### **A** DANGER

**AWARNING** 

**ACAUTION** 

X,SIGNAL

-19-03MAR93

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-UN-23AUG88

#### **FOLLOW SAFETY INSTRUCTIONS**

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ

-19-03MAR93



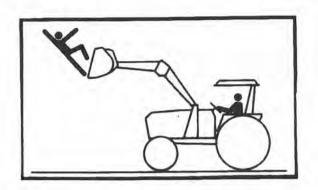
#### PROTECT PEOPLE AND ANIMALS

Never allow anyone to walk or work under a raised loader.

Be sure that people, livestock, or pets are not standing near the machine while operating.

Do not use the loader for a work platform.

Do not lift or carry anyone on loader or in bucket or attachment.



PSC

WX,520,SY,1 -19-21FEB92

### AVOID INJURY OR DEATH FROM ROLLOVER ACCIDENTS

To avoid rollovers:

- · Be careful when operating on a slope.
- Avoid holes, ditches and obstructions which may cause tractor and loader to tip over.
- Balance loads so weight is evenly distributed and load is stable.
- Carry loads close to the ground to aid visibility and lower center of gravity.
- · Know capacity of loader. Do not overload.
- · Reduce speed before turning. Avoid sharp turns.



-

WX,520,SY,2 -19-21FEB92

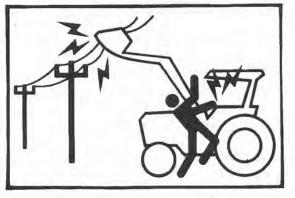


#### **AVOID POWER LINES**

Serious injury or death can result if tractor or loader contacts electric lines.

Check height clearance before raising loader.

Do not leave the operator's seat if any part of tractor or loader contacts lines.



WX,520,SY,3 -19-21FEB92

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#### DIG SAFELY

Before digging, check location of cables, gas lines and water mains.

Do not leave the operator's seat if any part of tractor or loader contacts cables.



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#### **DETACH LOADER SAFELY**

Detach the loader on a hard, level surface.

Before disconnecting hydraulic hoses, relieve all hydraulic pressure.



WX,520,SY,5 -19-21FEB92



#### AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



#### AVOID INJURY OR DEATH FROM FALLING **ROUND BALES**

To help prevent personal injury or death caused by falling loads:

- · DO NOT handle round bales unless loader is equipped with approved bale handling attachments. Otherwise, the bale can fall on the operator when the loader is raised.
- · Lockout optional valve detents.
- · Handle raised loads with caution.
- · Carry loads low and drive slowly.





### AVOID INJURY OR DEATH FROM ROLLOVER ACCIDENTS

To help prevent personal injury or death caused by rollover accidents when handling round bales:

- Equip the tractor with a rollover protective structure (ROPS). Wear your seat belt.
- DO NOT exceed the following round bale weight limitations:



Loader		Attachment	
Model	Grapple	Hugger	Fork
620	450 kg (1000 lb)	450 kg (1000 lb)	680 kg (1500 lb)
720	900 kg (2000 lb)	900 kg (2000 lb)	900 kg (2000 lb)
725	900 kg (2000 lb)	900 kg (2000 lb)	900 kg (2000 lb)

- Be sure tractor tire spacing and rear ballast is correct before using loader.
- · Stop loader gradually when lowering or lifting loads.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.

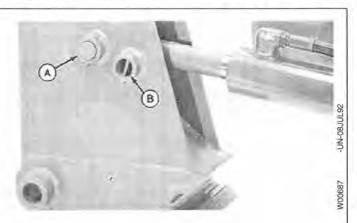
WX,620,SY,7 -19-24JUL92

#### **USE CORRECT LIFT CYLINDER POSITION**

There are two lift cylinder positions:

- Use hole (A) 6000 and 7000 Series Tractors.
- Use hole (B) for 20, 30, 40, 50 and 55 Series Tractors.

6000 and 7000 Series Tractors have higher hydraulic operating pressures. Moving the cylinder to position (B) will increase the lift capacity of the loader beyond the safe limit. This excess lift capacity could result in tractor instability causing tractor rollover and personal injury or death.



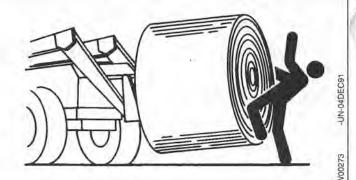
WX,620,SY,7A -19-24JUL92



#### TRANSPORTING ROUND BALES SAFELY

Follow the instructions in OPERATING THE BALE FORK, OPERATING THE GRAPPLE or OPERATING THE ROUND BALE HUGGER section of this manual. Also, read the decals attached to both the loader and the attachments.

To help prevent personal injury or accident caused from a bale falling off the loader, carry the bale low and slightly rolled back. Travel slowly over rough ground.



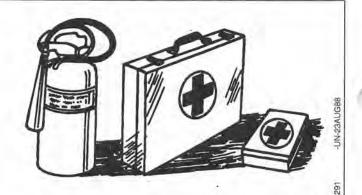
WX,640,SY,8 -19-20JUL92

#### PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



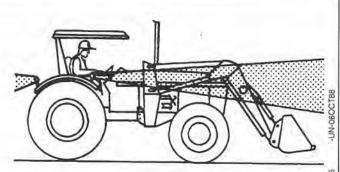
DX,FIRE2

-19-03MAR93

#### DRIVING ON PUBLIC ROADS

While driving tractor and loader, follow these precautions:

- Carry loads close to the ground to aid visibility and to lower center of gravity.
- Allow for additional length of loader on tractor while turning.
- Balance loads so weight is evenly distributed and load is stable.
- Drive slowly if carrying materials. Rough conditions may cause material to spill.
- · Avoid carrying materials wider than the tractor.



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#### **USE SAFETY LIGHTS AND DEVICES**

Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driven on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

Whenever driving on public roads, use flashing warning lights and turn signal according to local regulation. To increase visibility, use the lights and devices provided with your machine. For some equipment, install extra flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items. An implement safety lighting kit is available from your John Deere dealer.



DX,FLASH

-19-15MAR93

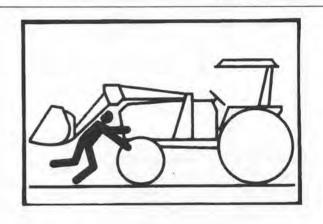
#### SERVICE LOADER SAFELY

Always engage parking brake or place transmission in "PARK", lower loader to the ground, shut off engine and remove key before servicing the loader.

Do not walk or perform service under a raised loader, bucket or attachment unless it is securely blocked or held in position.

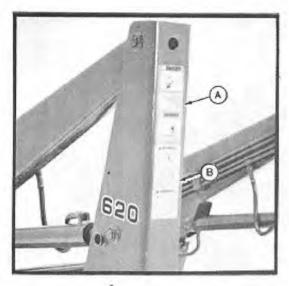
Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.

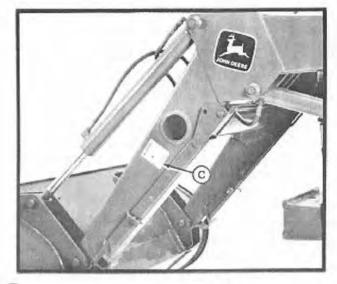
Before disconnecting hydraulic hoses, relieve all hydraulic pressure.



WX,520,SY,10 -19-21FEB92

## Safety Signs





A

### **A** DANGER



Serious injury or death can result from rollovers

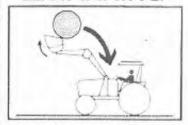
- Use rops and seatbelt at all times.
- Add recommended rear ballast.
- Move wheels to widest recommended setting.
- Operate tractor at low speeds.

### **A** DANGER



Serious injury or death can result from contact with electric lines.

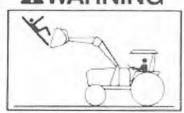
### **WARNING**



To avoid injury or death caused by falling loads.

- Do not handle round bales unless loader is equipped with approved bale handling attachments.
- ·Lockout optional valve detents.
- · Handle raised loads with caution.
- · Carry loads low.

### **AWARNING**

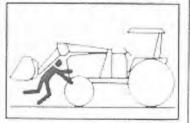


To avoid injury from falls

 Do not work from or allow riders on loader or its attachments.

### C

### **AWARNING**



To avoid injury from falling loader

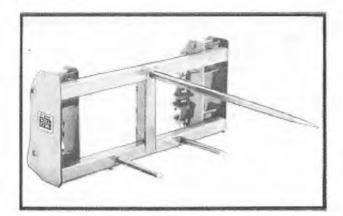
- Do not walk or perform service under a raised loader.
- Lower loader to ground when parked

WOORRE

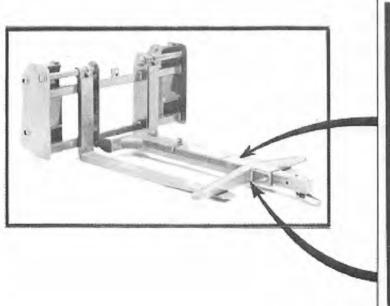
### **ACAUTION**

To help prevent bodily injury

- Park and store bale fork with tines pointed down or against bale, building or other stable object.
- Do not detach loader from tractor with bale fork installed. Equip loader with materials bucket or manure fork when detaching.



WX,640,SY,12 -19-20JUL92





To prevent bodily injury:

- Do not use boom attachment in stored position.
- 2. Adjust forklift tines to narrowest setting for boom operation.
- 3. Keep boom horizontal when in operation.
- 4. Do not exceed boom lift capacity:
  - extended 1600 lbs. retracted 3000 lbs.
- 5. Observe safety recommendations in forklift and loader operator's manuals.

C.O.C.

WX,640,SY,13 -19-20JUL92

-19-DEMAY

WOORS

### **Preparing The Tractor**

#### APPROVED TRACTORS FOR 620 LOADER

A

CAUTION: To help prevent personal injury or death caused by tractor rollover, be sure tractor is equipped with rollover protective structure (ROPS) and approved seat belt.

IMPORTANT: To prevent damage to the tractor, 20, 30, 40 series 2-Wheel Drive tractors must have heavy duty front axle.



#### **Tractor Model Series**

6000	55	50	40	30	20
6200	2155	2150	1640	1830	2020
6200L	2255	2350	1840	2030	2120
6200L MFWD*	2355	2550	2140	2130	
6300	2355N	2750	2440	2130 HF	WD
6300L	2355N MFWD	)	2640	2630	
6300L MFWD*	2555				
6400	2755				
6400L	2855N				
6400L MFWD* 6500L	2855N MFWD	)			
6500L MFWD*					

\* Maximum front tire size 10.5/80-18. Loader requires lift cylinder stops.

MFWD - Mechanical Front Wheel Drive

HFWD - Hydraulic Front Wheel Drive

NOTE: Loader is not compatible with front fenders on 6000 Series Low Profile Tractors.

WX,620,TR,1 -19-08FEB95

#### APPROVED TRACTORS FOR 720 LOADER



CAUTION: To help prevent personal injury or death caused by tractor rollover, be sure tractor is equipped with rollover protective structure (ROPS) and approved seat belt.

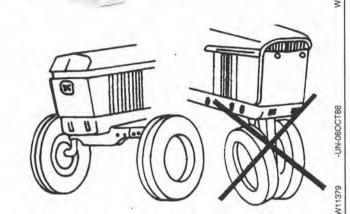


CAUTION: For better stability, use a tractor with adjustable front axle. DO NOT use this loader on a tractor with Roll-O-Matic front end, single or double front wheels.

#### **Utility Tractor Model Series**

55	50	40	30
2955	2950	2840	3130
3055		2940	3130 HFWD
		3140	

	Hov	w Crop	Iractor	Model Series		
7000	6000	55	50	40	30	20
7200 7400 7600 7700	6600* 6800*	4055 4255	4050 4250	4240 4240 HFWD 4440	4030 4030 HFWD 4230 4230 HFWD 4430 4430 HFWD	3020 HFWD



\* Australia

HFWD - Hydraulic Front Wheel Drive

WX,720,TR,2 -19-06FEB95

#### APPROVED TRACTORS FOR 725 LOADER



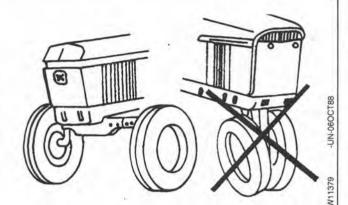
CAUTION: To help prevent personal injury or death caused by tractor rollover, be sure tractor is equipped with rollover protective structure (ROPS) and approved seat belt.



CAUTION: For better stability, use a tractor with adjustable front axle. DO NOT use this loader on a tractor with Roll-O-Matic front end, single or double front wheels.

#### **Tractor Model Series**

7000	6000	55	50	40	30	20
7200	6600*	4055	4050	4040	4030	4000
7400	6800*	4255	4250	4040 HFWD	4030 HFWD	4000 HFWD
7600		4455	4450	4240	4230	4020
7700				4240 HFWD	4230 HFWD	4020 HFWD
7800				4440	4430	4320
				4440 HFWD	4430 HFWD	4320 HFWD
					4630	4520
					4630 HFWD	4620
						4620 HFWD



\* Australia

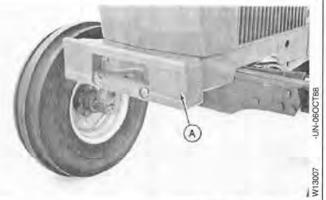
HFWD - Hydraulic Front Wheel Drive

WX,720,TR,3 -19-06FEB95

#### REMOVING FRONT WEIGHTS

IMPORTANT: To prevent damage to tractor or loader, remove front tractor weights.

Remove front tractor weights. Weight support (A) can remain on the tractor.



WX,620,TR,7 -19-12AUG92

#### FRONT TIRE REQUIREMENTS 620 LOADER

IMPORTANT: To prevent tire failure, use only tires of similar size, with equal to or greater load rating.

2-Wheel Dr Tractors	ive	HFWD Tractors	2150 and 2255 Tractors Only	2355N and 2855N MFWD Tractors Only	6000 Low Profile MFWD Tractors Only
Tire Size	Ply Rating	Tire Ply Size Rating	Tire Ply Size Rating	Tire Ply Size Rating	Tire Ply Size Rating
7.50-16	6	9.5—24 8	6.50—16 6	7.50—18 8	10.5—18 10
7.50-18	6	11.2-24 8	2000	7.50-20 8	
9.5L-15	6			10.5—18 8	
11L-15	6				
10.0-16	8				
11.0-16*	8				

- \* This tire approved on 6000 Series Tractors only at 1770 mm (70 in.) or greater tread setting. Tire may interfere with loader frame at narrow tread setting.
- Inflate tires to the maximum pressure for the tire size, as recommended in the tractor operator's manual.

WX.720.TR.4 -19-06FEB95

#### FRONT TIRE REQUIREMENTS 720 LOADER

IMPORTANT: To prevent tire failure, use only tires of similar size, with equal to or greater load rating.

6000, 7000	0	2-Wheel Drive	HFWD		
Series Tra	eries Tractors 20, 30, 40, 50, 55		es Tractors 20, 30, 40, 50, 55 20,		20, 30, 40, 50, 55
		Series Tractors	Series Tractors		
Tire	Ply	Tire Ply	Tire Ply		
Size	Rating	Size Rating	Size Rating		
10.0-16	6	7.50—20 6	11.2—24 6		
11.0-16	8	10.0—16 6	12.4—24 6		
14L-1	6.1 8	11L—15 6			
11.0-24	1* 8	11.0—16** 8			

- \* Minimum tread restricted to 1930 mm (76 in.).
- \*\* 11.0—16 tires are not recommended for loader operation on 4240 or larger tractors because of lack of digging depth.
- Inflate tires to the maximum pressure for the tire size, as recommended in the tractor operator's manual.

WX 720 TR 5 .19.06EFR95

#### FRONT TIRE REQUIREMENTS 725 LOADER

IMPORTANT: To prevent tire failure, use only tires of similar size, with equal to or greater load rating.

Series Tractors		2-Wheel Drive 20, 30, 40, 50, 55		HFWD 20, 30, 40, 50, 55	
		Series Tra		Series Tract	
Tire	Ply	Tire	Ply	Tire	Ply
Size	Rating	Size	Rating	Size	Rating
10.0—16	8	14L—1	6.1 6	11.2-24	6
11.0—16	8	9.5-20	6	12.4—24	6
14L—16	3.1 8	11.0—16	8	14.9—24	6

- 11.0—24 tire is not approved.
- Inflate tires to the maximum pressure for the tire size, as recommended in the tractor operator's manual.

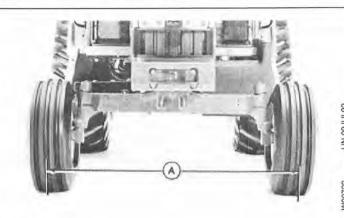
WX,720,TR,6 -19-06FEB95

### ADJUSTING FRONT WHEEL TREAD 620 LOADER

See your tractor operator's manual to make adjustments. "Widest" setting must not exceed maximum width recommended in tractor operator's manual for loaders.

#### Tread Setting (A)

2-Wheel Drive	
Tractors	
2150, 2155, 2255, 2355N, 2855N	Widest
6000 Series Tractors	
(All Tires Except 11.0—16)	1570 mm (62 in.) — Widest
6000 Series Tractors	
(With 11.0—16 Tire)	1770 mm (70 in.) — Widest
All others	1700 mm (67 in.) — Widest
MFWD Tractors	
2355N, 2855N	Widest
6000 Series Tractors	Widest
HFWD Tractors	
9.5-24 (With Steering Stops)	1700 mm (67 in.) — Widest



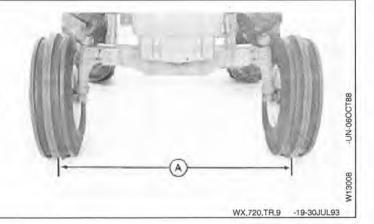
WX,620,TR,8 -19-06FEB95

### ADJUSTING FRONT WHEEL TREAD 720 AND 725 LOADER

Adjust tread (A) to any desired setting.

See your tractor operator's manual to make adjustments.

Tread width must not exceed maximum width recommended in tractor operator's manual for loaders.



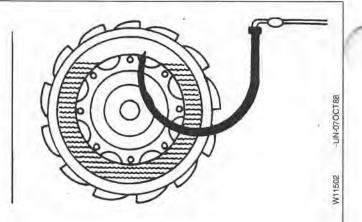
15-6

#### ADDING REAR BALLAST 620 LOADER



CAUTION: To help prevent personal injury or death from tractor/loader rollover, add recommended amount of ballast to tractor. The amount of ballast listed is the minimum required for normal loader operation. For some operations, additional ballast may be required to maximize stability.

Minimum



	Minimum		
Tractor	Ballast Per Wheel	Hitch Ballast*	Minimum Rear Tread
2150, 2155			
(Regular Front Axle)	500 kg (1100 lb)	900 kg (1985 lb)	1600 mm (63 in.)
2150, 2155			
(Heavy Duty Front Axle)	665 kg (1470 lb)	Optional	1600 mm (63 in.)
2255, 2355N, 2855N			
(2-Wheel Drive)	185 kg (410 lb)	900 kg (1985 lb)	1100 mm (44 in.)
2355N, 2855N			
(MFWD)	430 kg (950 lb)	Optional	1100 mm (44 in.)
6000 Series Tractors	None	None	1600 mm (63 in.)
All Other Tractors			
(Heavy Cast Rear Whee	ls) 195 kg (430 lb)	Optional	1700 mm (67 in.)
All Other Tractors			
(Steel Rear Wheel)	385 kg (847 lb)	Optional	1700 mm (67 in.)

<sup>\*</sup> Adding ballast to the 3-point hitch provides protection against damage to front axle due to overloading.

See your tractor operator's manual to add ballast to rear wheels.

WX,620,TR,11 -19-06FEB95

#### ADDING REAR BALLAST **720 AND 725 LOADER**



Tractor

CAUTION: To help prevent personal injury or death from tractor/loader rollover, add recommended amount of ballast to tractor. The amount of ballast listed is the minimum required for normal loader operation. For some operations, additional ballast may be required to maximize stability.

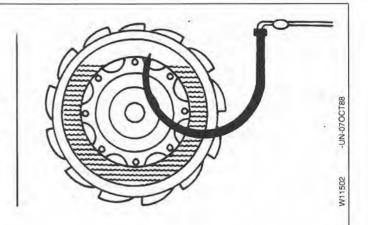
Loader

Ballast Per Wheel\*

2520	720	180 kg (400 lb)
3020 (Long Wheelbase)	720	900 kg (1985 lb)
4000		90 kg (200 lb)
	725	400 kg (880 lb)
4020, 4230	720	None
	725	400 kg (880 lb)
4055, 4255, 4455	720	None
	725	60 kg (132 lb)
6600, 6800, 7200, 7400	720	None
	725	275 kg (605 lb)
All Other Tractors	720	None
	725	None

\* Ballast given is minimum required for an 1800 mm (71 in.) or greater rear tread setting. For tread settings less than 1800 mm (71 in.) use an additional 320 kg (700 lb) per wheel.

See your tractor operator's manual to add ballast to rear wheels.



WX,720,TR,12 -19-06FEB95

#### ADJUSTING REAR WHEEL TREAD



CAUTION: To help prevent personal injury or death from rollover, use widest distance from tire center to tire center (A) to maximize stability. See Adding Rear Ballast in this section.

See your tractor operator's manual to adjust wheel tread.



WX,620,TR,10

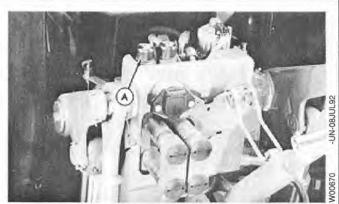
# CHANGING VALVE DETENT SELECTOR VALVES WITH COUPLED LOADER HOSES 6000 AND 7000 SERIES TRACTORS

A

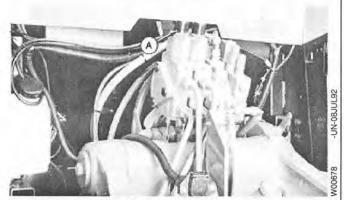
CAUTION: Help prevent personal injury or death caused by objects falling on the operator. Selective control valves have an automatic cylinder extend position (detent) that must be locked out for loader operation. Unintentional movement of the control lever to the detent position may cause the loader to raise to full height unexpectedly and the load to fall back on the operator.

Turn detent selector knob (A) to "loader" position.

Adjust selective control valves for fastest rate of operation.



6000 Series Tractor



7000 Series Tractor

WX,620,TR,13 -19-24JUL92

#### SETTING CONTROL LEVER STOPS SCV OPERATED LOADER 20, 30, 40, 50, 55 SERIES TRACTORS

A

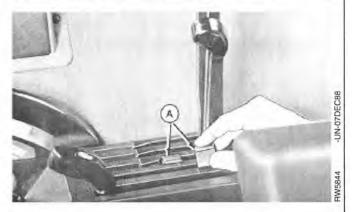
CAUTION: Help prevent personal injury or death caused by objects falling on the operator. Poppet type selective control valves have an automatic cylinder extend position (detent) that must be locked out for loader operation. Unintentional movement of the control lever to the detent position may cause the loader to raise to full height unexpectedly and the load to fall back on the operator.

NOTE: Spool type selective control valves do not have detent positions.

- 1. Position stops (A) on loader bucket control lever to lockout automatic extend and retract.
- 2. Position rear stop on loader lift control lever to lockout automatic extend. Position front stop to lockout automatic retract only if FLOAT is not desired.
- For Row Crop and Sound-Gard Body Tractors, a piece of rubber is provided. Cut to length needed and insert in lever slot.
- For Utility Tractors Without Sound-Gard Body, move stop plates on top of valve. See your tractor operator's manual to make adjustments.
- 3. Adjust selective control valves for fastest rate of operation.





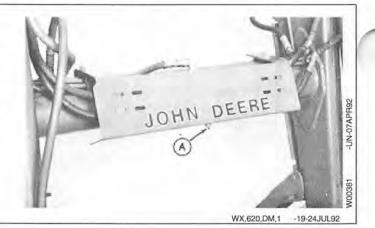


WX,620,TR,14 -19-24JUL92

### **Detaching The Loader**

#### REMOVING LOADER

For loader equipped with HYDRA-LEVEL™ one way self-level valve, turn valve off before detaching loader. Using 7/16 in. wrench and 1/8 in. hex key, turn adjustment screw (A) all the way in. Count the number of turns and note for turning valve on again.

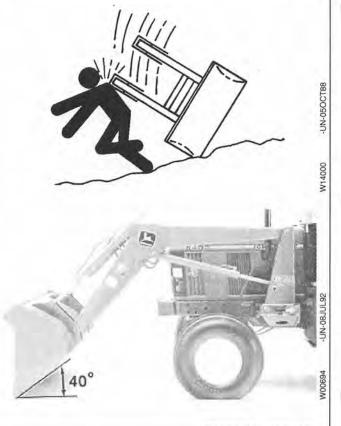


The loader must be equipped with QUIK-PARK™ attachment and a bucket to detach.



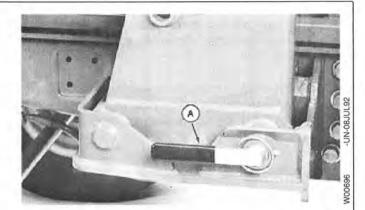
CAUTION: To help prevent personal injury caused by a falling loader, always detach on a hard, level surface. Equip the loader with a bucket for parking.

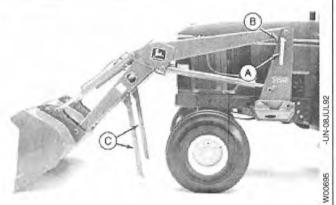
- 1. Dump bucket 40° below level.
- 2. Lower bucket to ground, applying slight down pressure. Do not raise tires off ground.
- 3. Engage parking brake and shut off engine.



- 4. Remove pins (A) and place in storage brackets (B).
- 5. Lower stands (C).

NOTE: To prevent loader from sinking in soft ground, place boards under parking stands.





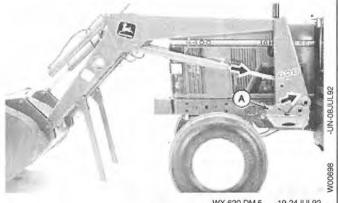
-19-12AUG92 WX,620,DM,3

6. Detach clamp (A) from inside of right-hand mast.



WX,620,DM,4 -19-24JUL92

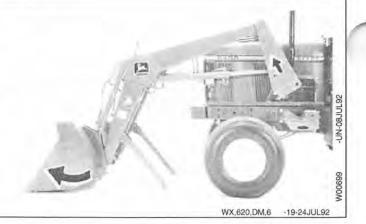
7. Start engine, put transmission in neutral and slowly extend lift cylinders until masts clear pins (A).



WX,620,DM,5

8. Slowly roll back bucket completely and loader will lift out of mounting frames. Drive ahead as necessary to keep hoses slack.

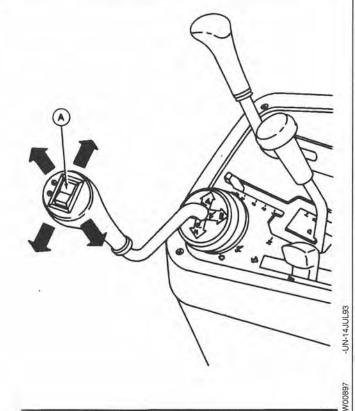
NOTE: Depending on tractor/loader model, to clear mounting frames it may be necessary to further extend lift cylinders while rolling back bucket.



- 9. Retract lift cylinders completely.
- 10. Extend bucket cylinders slightly.



- 11. Relieve hydraulic pressure and disconnect couplers.
- · For loader without electro-hydraulic valve:
- shut off engine
- move loader control levers
- disconnect hoses
- · For loader with electro-hydraulic valve:
- extend attachment cylinder completely
- shut off engine
- move joystick lever
- disconnect all hoses not under pressure
- start engine
- touch switch to retract attachment cylinder
- shut off engine
- disconnect remaining hose



WX,7400M,9

-10-11 II INO3

### **Attaching The Loader**

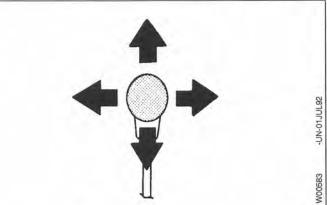
#### ATTACHING LOADER

- 1. Center tractor between loader masts.
- 2. Stop tractor with backs of loader masts approximately 300 mm (12 in.) in front of mounting frames.

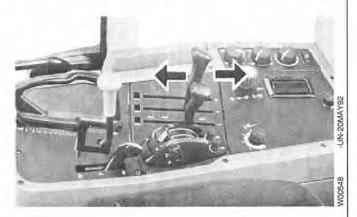


Relieve hydraulic pressure:

For 6000 or 7000 Series Tractor with joystick loader control, shut off engine, move lever forward and back, side to side.

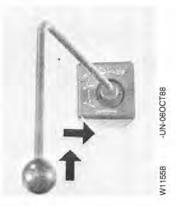


For loader operated with tractor selective control valves, shut off engine and move levers forward and back.



For loader operated with independent control valve on 20, 30, 40, 50 and 55 Series Tractors, use following special procedure to relieve hydraulic pressure:

- With engine running, move lever forward and to right-hand side. Do not place lever in FLOAT or FAST DUMP positions.
- Hold lever, shut off engine and wait until engine stops before releasing lever.



WX,620,AM,2 -19-24JUL92



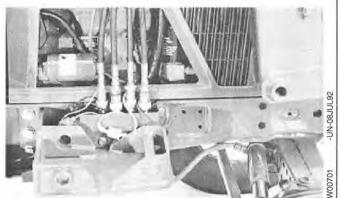
CAUTION: To avoid injury from escaping fluid under pressure, relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure. (See tractor operator's manual for specific procedures to relieve pressure.)



CAUTION: Help prevent personal injury caused by unexpected loader movement. Hose connections must be correct or loader will not respond as expected when control lever is moved.

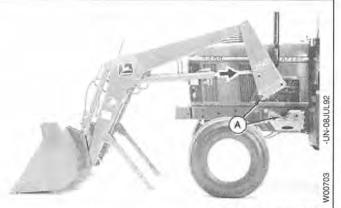
4. Connect hydraulics using colored dust covers, identification tags or marks to match mating couplers.





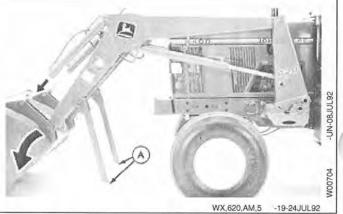
VX,620,AM,3 -19-06FEB95

5. Extend lift cylinders until bottoms of masts are approximately over center of frames (A).



WX,620,AM,4 -19-24JUL92

6. Slowly dump bucket until stands (A) are off ground at least 100 mm (4 in.).

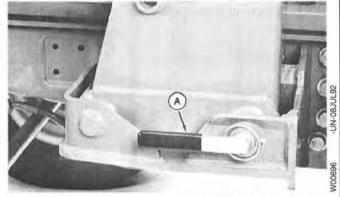


- 7. With tractor in neutral, slowly retract lift cylinders until masts seat firmly in mounting frames.
- 8. Engage parking brake and shut off engine.



WX.620.AM.6 -19-12AUG92

- 9. Install pins (A) on both sides of loader.
- 10. Store parking stands.

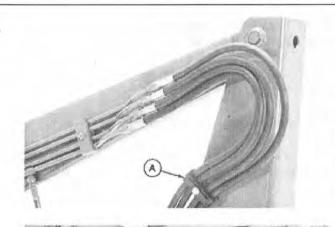


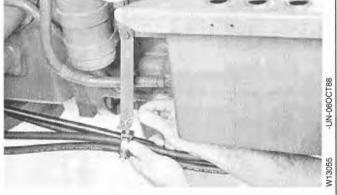
NY 620 AM 7 -19-12AUG92

11. Connect hose clamp (A) to inside of right-hand mast.

For tractors with hoses routed to rear, attach hose clamps on underside of tractor.

12. Check loader operation.





WX,720,AM,8 -19-30JUL93

### **Detaching and Attaching Bucket**

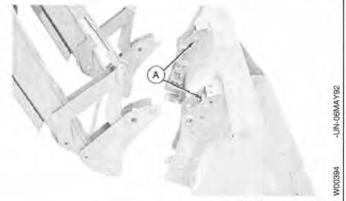
#### DETACHING THE BUCKET WITH QUIK-CHANGE™ LATCHES

- 1. Raise and level bucket 400 mm (16 in.) off ground.
- 2. Lift pins (A) and pull to outside to lock in raised position.



WX,740OM,12 -19-09JUN93

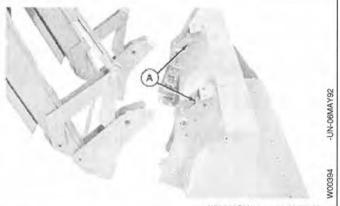
- 3. Slowly extend bucket cylinders until front of bucket is on ground.
- 4. Lower loader to clear pins (A).



WX,740OM,13 -19-09JUN93

### ATTACHING THE BUCKET WITH QUIK-CHANGE LATCHES

- 1. Extend bucket cylinders to angle loader attaching brackets forward.
- 2. Align tops of brackets with pins (A).
- 3. Raise loader until brackets engage pins and then roll back attachment quickly.



WX,740OM,14 -19-09JUN93

4. Raise loader high enough to check that pins (A) have fully dropped.

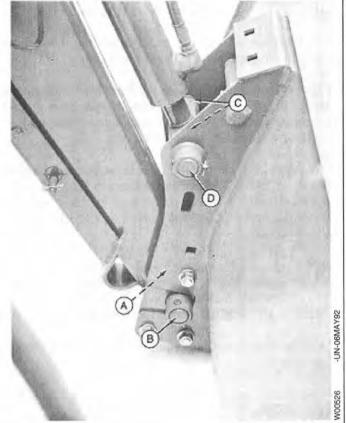
Clean latch parts and check adjustment as required. See Adjust Bucket Quik-Change Latches in Service section.



WX,740OM,15 -19-09JUN93

### ATTACHING THE BUCKET WITHOUT QUIK-CHANGE LATCHES

- 1. Line up loader with attaching holes.
- 2. Install 25 mm (1 in.) spacer (A) (outside boom arm) and pin (B).
- 3. Install two 40 mm (1-5/8 in.) spacers (C) (one on each side of cylinder rod) and pin (D).



WX,740OM,16 -19-09JUN93

### DISCONNECTING GRAPPLE HOSES WITH ELECTRO-HYDRAULIC VALVE

- 1. Close grapple or hugger completely.
- 2. Shut off engine and disconnect hose not under pressure.
- 3. Start engine and touch switch to open grapple or hugger.
- 4. Shut off engine and disconnect remaining hose.



WX,740OM,17 -19-09JUN93

### **Operating The Loader**

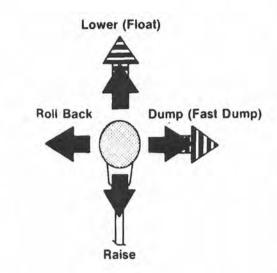
#### OPERATING LOADER WITH JOYSTICK

- · Operate loader from operator's seat only. Remain at controls until operating cycle is complete.
- · Lever returns to NEUTRAL by itself from all positions except FLOAT. Pull lever back to release from FLOAT. (On 6000 and 7000 Series Tractors, lever returns to neutral by itself with engine shut off.)
- · Slightly extra effort is required to move lever beyond DUMP to FAST DUMP. Bucket cylinder force is reduced in FAST DUMP position. Use it only for dumping materials. FAST DUMP may only be noticeable at low engine speed.

NOTE: Oil flow limitations may not allow you to do two loader operations at one time such as RAISE and ROLL BACK. The operation that requires the least hydraulic force will move first.

Lever can be locked in neutral to prevent unintentional movement:

- For 6000 and 7000 series tractor, rotate ring (A) to lock symbol.
- For tractors except 6000 and 7000 series, pull up lock at base of lever. To unlock, press sides of lock and push down.









Older Tractor Models

WX.720.OM.1

### OPERATING LOADER WITH SELECTIVE CONTROL VALVES

 Operate loader from operator's seat only. Remain at controls until operating cycle is complete.

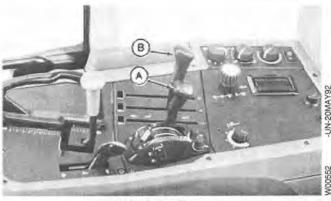
#### Preparing controls:

- Set selective control valves for fastest rate of operation.
   See your tractor operator's manual to make adjustments.
- For 6000 and 7000 Series Tractors, set detent lockout knobs on top of valves to "loader" position.
- For 20, 30, 40, 50, 55 Series Tractors, set control lever stops to prevent levers from going to detent postion.
   (See Setting Control Lever Stops in Preparing the Tractor Section.)
- Connect loader hoses to tractor selective control valve so that the loader operates as follows:

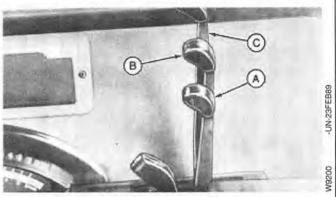
#### LEVER LOADER OPERATION

- (A) ..... RAISE, LOWER and FLOAT
  (B) ..... DUMP and ROLL BACK
- (C) ..... GRAPPLE OR OTHER ATTACHMENT

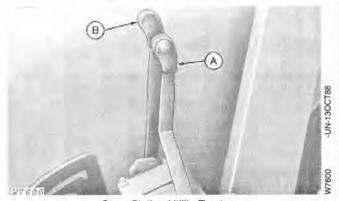
NOTE: Oil flow limitations may not allow you to do two loader operations at one time such as RAISE and ROLL BACK. The operation that requires the least hydraulic force will move first.



7000 Series Tractor



Older Row Crop Tractor



Open Station Utility Tractor

WX,720,OM,2 -19-06FEB95

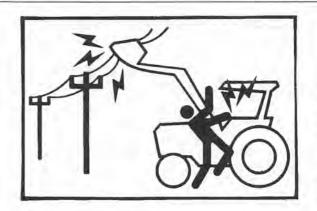
#### RAISING AND LOWERING THE LOADER

A

CAUTION: Help prevent bodily injury or death from electrical contact. Beware of lift clearance when raising loader to maximum height. Beware of low electrical wires when loader is raised. Do not leave the operator's seat if any part of tractor or loader contacts cables.

 To lower a heavy load, "feather" the control lever forward.

IMPORTANT: Stop loader gradually when lowering heavy loads. Never drop a loaded attachment and "catch" hydraulically. Stopping a load after it has gained downward momentum may cause damage to the tractor or loader.



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-UN-05DEC91

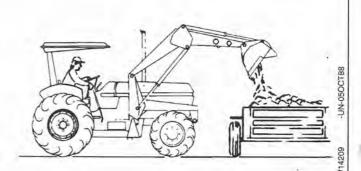
WX,740OM,20 -19-09JUN93

#### **DUMPING THE BUCKET**

Loaders operated with joystick control have a FAST DUMP feature. (6000 and 7000 Series Tractors must be equipped with a special "Bucket" valve.)

To dump the bucket, move the control lever to the right-hand side. Slightly extra effort is required to move lever beyond DUMP to FAST DUMP.

Bucket cylinder force is reduced in FAST DUMP position. Use it only for dumping materials.



WX,620,OM,5 -19-12AUG92

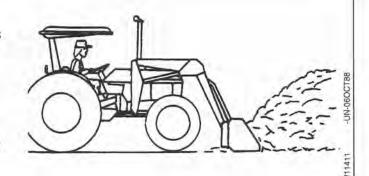
#### REMOVING MATERIAL FROM A PILE

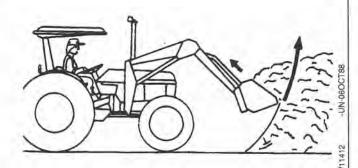
1. Approach and enter pile with bucket level. If the pile is high, remove the top first.

NOTE: Bucket top is parallel to bottom. Bucket is level when top is level. Also, a bucket level indicator attachment is available.

2. Move forward slowly, lifting the loader and rolling back bucket.

NOTE: Overfilling the bucket in heavy or packed material may cause the loader to stall. If loader stalls, back up or take less material.





VX.640.OM.4 -19-20JUL92

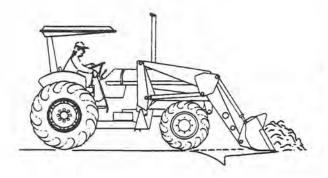
#### DIGGING

A

CAUTION: Check underground utility locations before digging. To help prevent bodily or injury or death, do not leave the operator's seat if any part of loader contacts cables. Back away from the cable before getting off tractor.

- 1. Angle bucket slightly below ground level and move forward slowly.
- 2. When bucket has penetrated material, level bucket and move forward until bucket is full.





WX 640 OM 6 -19-20 JUL 92

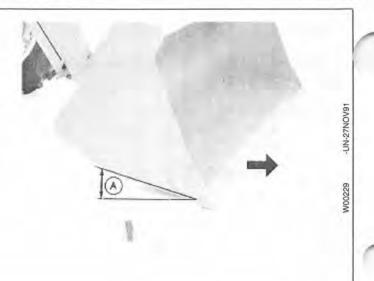
12 -UI

290596 PN=35

#### LEVELING AND SCRAPING FORWARD

IMPORTANT: To avoid bending the bucket cutting edge on a solid object while scraping forward, position the bucket level or just below level. Use FLOAT to reduce wear on cutting edge when scraping concrete.

- To level or scrape forward, position bucket level or slightly below level (A).
- Use FLOAT to reduce down pressure and wear on cutting edge when scraping concrete.



WX,640,OM,7 -19-14AUG92

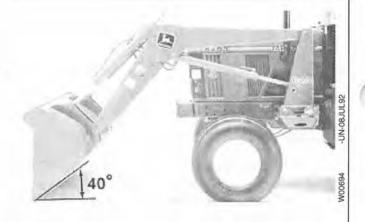
#### LEVELING IN REVERSE

IMPORTANT: To avoid bending the bucket cutting edge on a solid object while leveling in reverse, position the bucket less than 40° below level. Use FLOAT to reduce down pressure.

Position bucket 40° or less below level.

Use FLOAT to reduce down pressure.

Back up slowly.



WX,620,OM,8 -19-24JUL92

#### DRIVING ON PUBLIC ROADS



CAUTION: Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driven on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

Whenever driving on public roads, use flashing warning lights and turn signal according to local regulation. To increase visibility, use the lights and devices provided with your machine. For some equipment, install extra flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items. An implement safety lighting kit is available from your John Deere dealer.

While driving tractor and loader, follow these precautions:

- Carry loads close to the ground to aid visibility and to lower center of gravity.
- · Roll bucket or attachment back.
- Allow for additional length of loader on tractor while turning.
- Balance loads so weight is evenly distributed and load is stable.
- Drive slowly if carrying materials. Rough conditions may cause material to spill.
- · Avoid carrying materials wider than the tractor.





WX,620,OM,9 -19-06FEB95

# Operating the Round Bale Fork

## AVOIDING INJURY OR DEATH FROM ROLLOVER ACCIDENTS



CAUTION: To help prevent personal injury or death caused by rollover accidents when handling round bales:

- Equip the tractor with a rollover protective structure (ROPS). Wear your seat belt.
- For 620 Loader, DO NOT handle bales that exceed bale weight of 680 kg (1500 lb).
- For 720 and 725 Loaders, DO NOT handle bales that exceed bale weight of 900 kg (2000 lb).
- Be sure tractor tire spacing and rear ballast is correct before using loader.
- Stop loader gradually when lowering or lifting loads.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.



3003

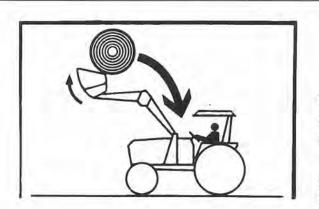
WX,620,OM,10 -19-24JUL92

## AVOIDING INJURY OR DEATH FROM FALLING ROUND BALES

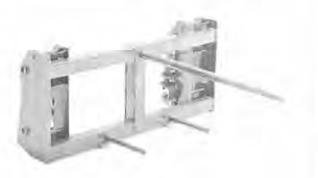


CAUTION: To help prevent personal injury or death caused by falling loads:

- DO NOT handle round bales unless loader is equipped with an approved bale handling attachment. Otherwise, the bale can fall on the operator when the loader is raised.
- For 20, 30, 40, 50 and 55 Series Tractors, set control lever stops to prevent levers from going to detent postion. See Setting Control Lever Stops in Preparing the Tractor Section.
- For 6000 and 7000 Series Tractors with hoses coupled to tractor selective control valves, set detent selector knobs on top of valves to "loader" position.
- Handle raised loads with caution.
- · Carry loads low and drive slowly.



526

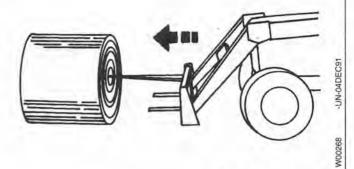


0356

WX 620 OM 11 -19-06FER95

#### PICKING UP A ROUND BALE

- 1. Approach bale with fork level, and centered on bale.
- 2. Push fork in bale until bale is against fork frame.
- 3. Raise and roll back bale just high enough to provide ground clearance for transport.



WX.640.OM.12 -19-20JUL92

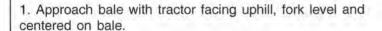
#### PICKING UP A ROUND BALE ON A SLOPE



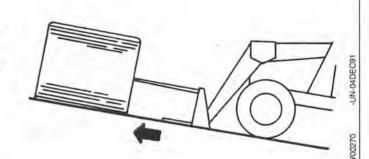
CAUTION: To help prevent injury caused by tractor rollover when handling round bales on a slope, avoid side slope travel whenever possible. Drive up slope to pick up a bale and down in reverse. Move bale as close to the ground as possible.



CAUTION: To help prevent injury caused by being struck by a bale rolling down a slope, never use the tractor or loader to stop a rolling bale.



- 2. Push fork in bale until bale is against fork frame.
- 3. Raise and roll back bale just high enough to provide ground clearance for transport.
- 4. Select low tractor speed before moving or turning on a slope.

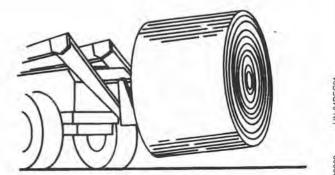


WX,640,OM,13 -19-20JUL92

#### TRANSPORTING A ROUND BALE



CAUTION: To help prevent personal injury or accident caused from a bale falling off the fork, carry the bale low and slightly rolled back. Travel slowly over rough ground.



WX,640,OM,14 -19-20JUL92

PN=39

# **Operating the Grapple**

# AVOIDING INJURY OR DEATH FROM ROLLOVER ACCIDENTS



CAUTION: To help prevent personal injury or death caused by rollover accidents when handling round bales:

- Equip the tractor with a rollover protective structure (ROPS). Wear your seat belt.
- For 620 Loader, DO NOT handle bales that exceed bale weight of 450 kg (1000 lb).
- For 720 and 725 Loaders, DO NOT handle bales that exceed bale weight of 900 kg (2000 lb).
- Be sure tractor tire spacing and rear ballast is correct before using loader.
- · Stop loader gradually when lowering or lifting loads.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.



HW13093

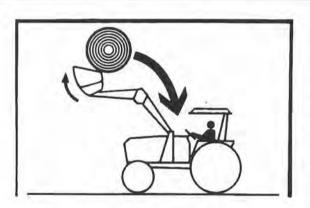
WX,620,OM,16 -19-24JUL92

# AVOIDING INJURY OR DEATH FROM FALLING ROUND BALES



CAUTION: To help prevent personal injury or death caused by falling loads:

- DO NOT handle round bales unless loader is equipped with an approved bale handling attachment. Otherwise, the bale can fall on the operator when the loader is raised.
- For 20, 30, 40, 50 and 55 series tractor, set control lever stops to prevent levers from going to detent postion. See Setting Control Lever Stops in Preparing the Tractor Section.
- For 6000 and 7000 Series Tractors with hoses coupled to tractor selective control valves, set detent selector knobs on top of valves to "loader" position.
- · Handle raised loads with caution.
- · Carry loads low and drive slowly.



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WX.620.OM,17 -19-06FEB95

45-2

#### **OPERATING GRAPPLE CONTROLS**

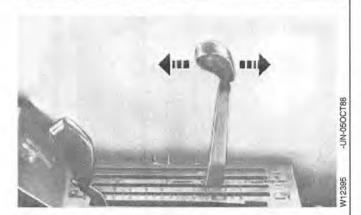
Grapple may be operated by one of three ways:

- 1. Electro-hydraulic valve, 6000 and 7000 series tractors only:
- a rocker switch on the loader control lever opens and closes the grapple.
- if grapple response is backwards to symbols on switch, reverse electrical connections at valve.
- 2. Three spool loader control valve, 20, 30, 40, 55 series tractor:
- a second lever below the loader control lever operates the grapple.





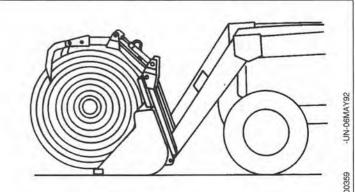
3. Selective control valve, all tractor models.



WX,720,OM,19 -19-30JUL93

#### PICKING UP A ROUND BALE

- 1. Approach bale with grapple open, bucket level and close to the ground.
- 2. Work bucket under bale until bale is against grapple frame.
- 3. Close grapple, raise and roll back bale just high enough to provide ground clearance for transport.



WX,640,OM,20 -19-20JUL92

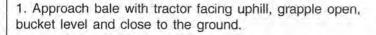
#### PICKING UP A ROUND BALE ON A SLOPE



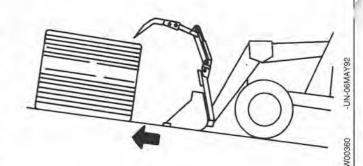
CAUTION: To help prevent injury caused by tractor rollover when handling round bales on a slope, avoid side slope travel whenever possible. Drive up slope to pick up a bale and down in reverse. Move bale as close to the ground as possible.



CAUTION: To help prevent injury caused by being struck by a bale rolling down a slope, never use the tractor or loader to stop a rolling bale.



- 2. Work bucket under bale until bale is against grapple frame.
- 3. Close grapple.
- 4. Raise and roll back bale just high enough to provide ground clearance for transport.
- 5. Select low tractor speed before moving or turning on a slope.

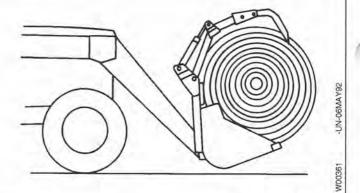


WX,640,OM,21 -19-20JUL92

#### TRANSPORTING A ROUND BALE



CAUTION: To help prevent personal injury or accident caused from a bale falling off the loader, carry the bale low and slightly rolled back. Travel slowly over rough ground.



WX,640,OM,22 -19-20JUL92

# REMOVING MATERIAL FROM A PILE WITH A GRAPPLE

IMPORTANT: Using the grapple teeth to dig material out of a pile will damage the grapple or loader. The grapple is designed only to clamp material in a bucket. Use the bucket to break material loose.

- 1. If possible, remove material from the top of the pile first.
- 2. Use loader bucket to break material loose. Equip the bucket with tines for better loosening action in packed silage.
- 3. After material is loosened, close grapple.



W1237

WX.640.OM.23 -19-20JUL92

# Operating the Round Bale Hugger

50-1

#### AVOIDING INJURY OR DEATH FROM ROLLOVER ACCIDENTS



CAUTION: To help prevent personal injury or death caused by rollover accidents when handling round bales:

- · Equip the tractor with a rollover protective structure (ROPS). Wear your seat belt.
- · For 620 Loader, DO NOT handle bales that exceed bale weight of 450 kg (1000 lb).
- For 720 and 725 Loaders, DO NOT handle bales that exceed bale weight of 900 kg (2000 lb).
- · Be sure tractor tire spacing and rear ballast is correct before using loader.
- · Stop loader gradually when lowering or lifting loads.
- · When handling round bales on a slope, always approach the bale with the tractor facing uphill.



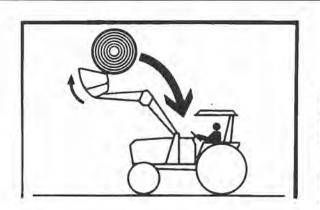
WX,620,OM,16 -19-24JUL92

#### AVOIDING INJURY OR DEATH FROM FALLING ROUND BALES



CAUTION: To help prevent personal injury or death caused by falling loads:

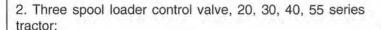
- · DO NOT handle round bales unless bale hugger is equipped with roll back guard (A) in place. Otherwise, the bale can fall on the operator when the loader is raised.
- For 20, 30, 40, 50 and 55 Series Tractor, set control lever stops to prevent levers from going to detent postion. See Setting Control Lever Stops in Preparing the Tractor Section.
- For 6000 and 7000 Series Tractors with hoses coupled to tractor selective control valves, set detent selector knobs on top of valves to "loader" position.
- · Handle raised loads with caution.
- · Carry loads low and drive slowly.



#### OPERATING BALE HUGGER CONTROLS

Hugger may be operated by one of three ways:

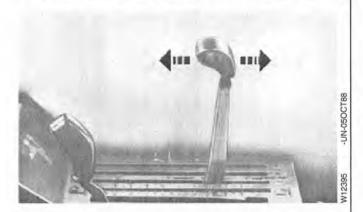
- 1. Electro-hydraulic valve, 6000 and 7000 series tractors only:
- a rocker switch on the loader control lever opens and closes the hugger.



 a second lever below the loader control lever operates the hugger.



3. Selective control valve, all tractor models.



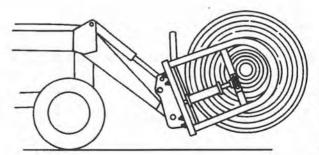
WX,720,OM,26 -19-30JUL93

#### TRANSPORTING A ROUND BALE



CAUTION: To help prevent personal injury or accident caused from a bale falling off the loader, carry the bale low and slightly rolled back. Travel slowly over rough ground.

Check hugger for proper clamping and make adjustments before transporting.



WX,640,OM,29 -19-20JUL92

W0064

#### HANDLING BALE BY ITS DIAMETER



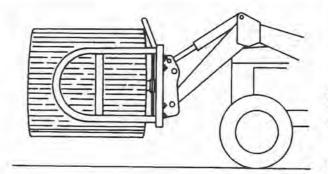
CAUTION: To help prevent injury caused by tractor rollover when handling round bales on a slope, avoid side slope travel whenever possible. Drive up slope to pick up a bale and down in reverse. Move bale as close to the ground as possible.

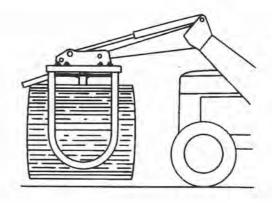


CAUTION: To help prevent injury caused by being struck by a bale rolling down a slope, never use the tractor or loader to stop a rolling bale.

- 1. Approach bale with hugger open, with arms straight out or tilted straight down. Use the straight down position to rotate bale for stacking on its end.
- 2. Close hugger and roll back bale so that loader is carrying the bale tilted back 15° to 30°.

NOTE: When handling bales for the first time or different bales, raise the bale 150 mm (6 in.) above ground and check the hugger's grasp on the bale. Make adjustments to prevent slipping or damage to plastic wrap.



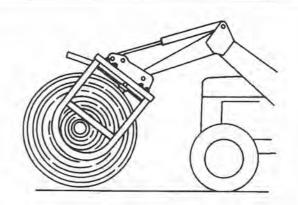


WX,640,OM,27 -19-20JUL92

#### HANDLING BALE BY ITS ENDS

- 1. Approach bale with hugger open, raised above bale, arms tipped down 40° to 60°.
- 2. Lower loader so that hugger gently drops onto the bale at the 40° to 60° angle.
- 3. Close hugger and roll back bale so that loader is carrying the bale tilted back 15° to 30°.

NOTE: When handling bales for the first time or different bales, raise the bale 150 mm (6 in.) above ground and check the hugger's grasp on the bale. Make adjustments to prevent slipping or damage to plastic wrap.



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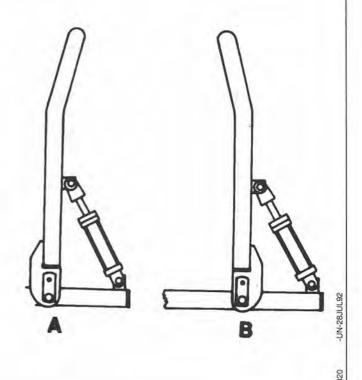
WX,640,OM,28 -19-20JUL92

#### REVERSING HYDRAULIC CLAMP ARM

The clamp arm is reversible. Position (B) provides the most aggressive grasp of the bale but may damage some plastic wraps. Position (A) has less tendency to damage plastic wrapped bales.

To change positions:

- 1. Remove the cylinder.
- 2. Disconnect the clamp arm from the frame and reverse it.
- 3. Install cylinder mounting bracket (C) on outside.
- Install cylinder.



WX,640,OM,30 -19-22JUL92

#### ADJUSTING RIGID CLAMP ARM

The rigid clamp arm can be unbolted and slid in or out to adjust for different bale sizes. To adjust:

- 1. Raise the hugger 600 mm (24 in.) above ground and block main frame.
- 2. Remove hardware on telescoping parts. (May require removing loader attaching bracket.)
- 3. Use a wood post to bump the arm in or out to the desired width and line up holes.
- 4. Install hardware. For large adjustment changes, loosen U-Bolts on loader attaching brackets and slide hugger to center it with loader.



WX,640,OM,31 -19-20JUL92

## **Attachments**

#### **BUCKETS**

The following buckets are available:

<b>Bucket Type</b>	Width	Struck Capacity
Low Feature .	1550 mm (61 in.)	0.48 m <sup>3</sup> (17 cu ft)
		0.57 m <sup>3</sup> (20 cu ft)
		0.48 m <sup>3</sup> (17 cu ft)
		0.57 m <sup>3</sup> (20 cu ft)
		0.65 m <sup>3</sup> (23 cu ft)
		0.74 m <sup>3</sup> (26 cu ft)
		0.62 m <sup>3</sup> (22 cu ft)
		0.72 m <sup>3</sup> (25 cu ft)
		1.10 m <sup>3</sup> (39 cu ft)

Low feature buckets will not fit loader equipped with QUIK-CHANGE attachment.



WX,720,A,1 -19-30JUL93

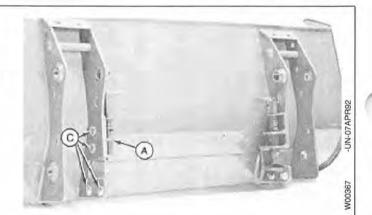
#### **BUCKET LATCHES OR PIVOT PLATES**

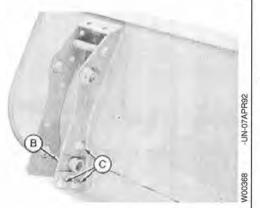
All buckets except low feature buckets and all attachments require either QUIK-CHANGE latches (A) or pivot pin plates (B).

Use latch plates (A) if loader is equipped with QUIK-CHANGE attachment.

Use pivot pin plates (B) without QUIK-CHANGE attachment.

Install using M16 x 35 bolts (C) and flange nuts. For latches, see Adjust Bucket Quik-Change Latches in Service section.





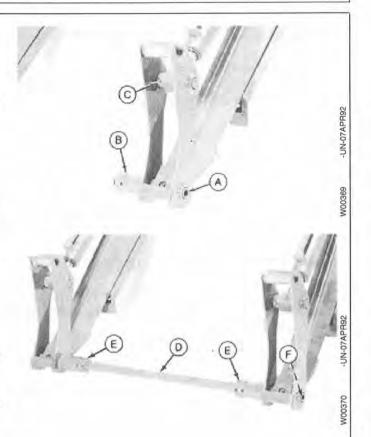
WX,720,A,5 -19-30JUL93

#### QUIK-CHANGE ATTACHMENT

QUIK-CHANGE provides self-latching when connecting attachments. QUIK-CHANGE latches are required on mating buckets and attachments. QUIK-CHANGE will not work with low feature buckets.

#### To install:

- 1. Retract bucket cylinders.
- 2. Attach link to loader using pivot pin (A), clevis pin (B) and cotter pin.
- 3. Connect link to cylinder using pivot pin, clevis pin (C) and cotter pin.
- 4. Slide second link over bar (D) and insert bar in first link.
- 5. Attach second link to loader. Do not connect to bucket cylinder at this time.
- 6. Connect bar (D) to both links using clevis pins (E) and cotter pins. Bar (D) is used to keep both links lined up when the bucket cylinders are activated.
- 7. Attach second link to cylinder.



WX,620,A,6 -19-24JUL92

#### TEETH FOR HEAVY DUTY BUCKET

Digging teeth cannot be used with the bolt on cutting edge attachment. Use teeth for digging in hard ground.

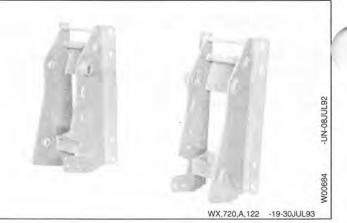


WX,740OM,29

## ATTACHMENT ADAPTER BRACKETS

These brackets can be installed on attachments not offered for this loader to adapt for the QUIK-CHANGE feature or regular pin connections.

Bolt or weld brackets as required.



#### TINES FOR MATERIALS BUCKETS

Use tines to handle manure or silage. For handling round bales, use tines to support the bale and a grapple to clamp the bale.

Tines extend out approximately 305 mm (12 in.) from bucket cutting edge.

Number of tines used:

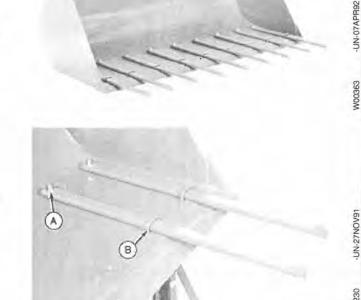
Bucket Width	Number of Tines
1550 mm (61 in.)	7
1850 mm (73 in.)	9
2450 mm (96 in.)	13



CAUTION: Help prevent personal injury from accidental lowering of bucket. Place safety stands under bucket when installing tines.

Install each tine using:

- (A) M12 x 40 cap screw, flat washer, nut on top.
- (B) U-bolt, two flat washers, M10 nuts.



WX,740,A,2 -19-11JUN93

#### REVERSIBLE BOLT ON CUTTING EDGE HEAVY DUTY AND HIGH VOLUME BUCKETS

Use this attachment when operating the bucket on concrete or asphalt surfaces to prevent rapid bucket wear. Adding this second edge under the regular cutting edge will increase the strength of the bucket.

Bolt on cutting edge cannot be used with digging teeth on the heavy duty bucket. It does not fit regular materials or low feature buckets.

Install using 1/2 x 2-1/4 in. plow bolts and nuts.



VX,620,A,4 -19-24JUL92

#### **BUCKET LEVEL INDICATOR**

This indicator allows you to easily check the level of the bucket, bale fork, forklift or other attachments.

Installation instructions are provided with the bucket level indicator. End of rod (A) attachs to cylinder pin. Tube is clamped to cylinder barrel (B).

NOTE: Indicator position for a bucket will not be the same for a bale fork or forklift. When using it for an attachment other than a bucket, level the attachment and put a new mark on rod at top of tube (C).



WX,W43428,18 -19-06FEB95

## **FORKLIFT**



CAUTION: To help prevent tractor/loader instability, never exceed the capacity of the tractor/loader used with the forklift. To increase loader stability, adjust tines to maximum width possible.

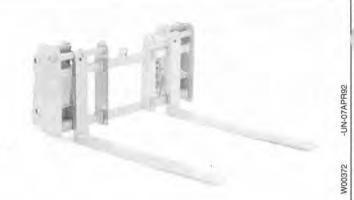
To avoid injury or death from bale rolling back down loader, do not handle round bales with the forklift.

Use to move pallets, bulk bins, crates, boxes and hampers.

Forklift capacity is same as loader capacity.

#### Forklift dimensions:

Tine Width	
Tine Length	
Maximum Spacing	
Minimum Spacing	



WX,640,A,9 -19-23JUL92

#### TELESCOPING BOOM

Use the telescoping boom as lifting device. It fits only the forklift attachment.



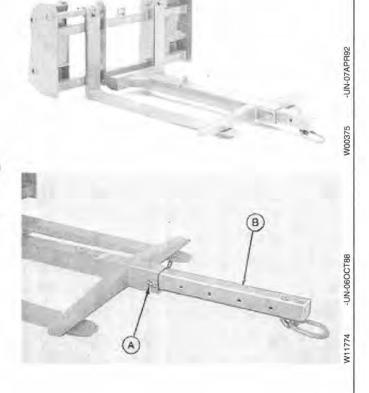
CAUTION: To help prevent tractor/loader instability, never exceed the capacity of the tractor/loader used with the boom. The boom must be kept in horizontal working position when operating.

The maximum lift capacity of the boom is 1361 kg (3000 lb) fully retracted and 726 kg (1600 lb) fully extended.

Adjust forklift tines to narrowest position before operating boom.

To adjust boom length:

- 1. Lower forklift to ground. Remove pin (A).
- 2. Slide boom extension (B) to desired length.
- 3. Install pin (A) and retain with quick-lock pin.

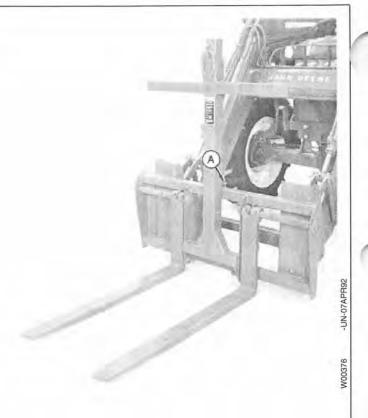


WX,640,A,11 -19-21JUL92

## STORING TELESCOPING BOOM

Store boom in upright position when using forklift only.

- 1. Raise boom.
- 2. Lock boom to forklift frame using pin (A) and quick-lock pin.

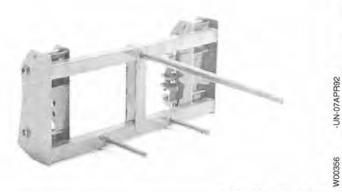


WX,640,A,12 -19-21JUL92

#### **ROUND BALE FORK**

Use to handle round bales:

- For 620 Loader, bale weight limit is 680 kg (1500 lb).
- For 720 and 725 Loaders, bale weight limit is 900 kg (2000 lb).



WX,620,A,14 -19-24JUL92

## **HOOD GUARD**

Hood guards are available for all tractors approved for the 620, 720 and 725 Loader. Installation instructions are in the loader predelivery manual.



7200, 7400 Tractor



Older Model Utility Tractor

WX,720,A,16 -19-30JUL93

#### QUIK-PARK STANDS

QUIK-PARK allows the loader to be detached from the tractor without a separate lifting device.



55-8

#### HYDRA-LEVEL ONE WAY SELF-LEVEL VALVE

HYDRA-LEVEL maintains bucket angle from ground level as the loader is raised. It routes return oil from the rod end of lift cylinders to head end of bucket cylinders during the raise cycle. HYDRA-LEVEL DOES NOT function in the lower cycle.

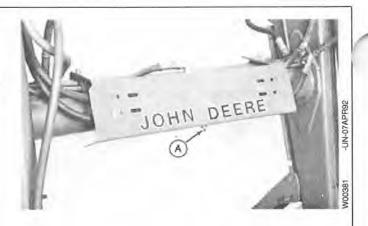
The valve will keep the bucket or attachment approximately level from ground to tractor hood height. Due to loader geometry and available oil flow, HYDRA-LEVEL may not accurately level above tractor hood height. Expect a variation in level from ground to full lift height of 10°.

Lower loads at normal speed. HYDRA-LEVEL uses oil supplied from the rod end of the lift cylinders to level the bucket. Lowering the loader slowly with a load or in FLOAT may void or "cavitate" the rod end of the lift cylinders. During the next raise cycle there may not be enough oil supplied for leveling the bucket.

#### To adjust valve:

Use a 7/16 in. wrench and 1/8 in. hex key to loosen jam nut (A) and turn adjustment screw.

- If bucket dumps while raising loader, turn screw in to decrease flow through valve.
- If bucket rolls back while raising, turn screw out to increase flow through valve.



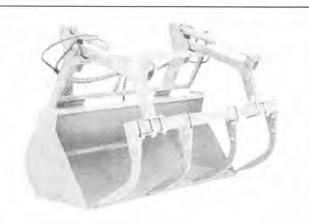
WX,620,A,26 -19-06FEB95

#### ROUND BALE/SILAGE GRAPPLE

Use the round bale/silage grapple to handle loose or chopped forage, silage or round bales.

- For 620 Loader, bale weight limit is 450 kg (1000 lb).
- For 720 and 725 Loaders, bale weight limit is 900 kg (2000 lb).

Grapple fits only regular materials and heavy duty buckets. Assembly instructions are in the loader predelivery manual.



WX,725,A,31 -19-05AUG93

#### **ROUND BALE HUGGER**

Use the hugger to handle round bales with or without plastic wrapping:

- For 620 Loader, bale weight limit is 450 kg (1000 lb).
- For 720 and 725 Loaders, bale weight limit is 900 kg (2000 lb).

Bales can be handled from almost any direction and can be stacked on ends or sides.

Most handling of plastic wrapped bales is on their ends where plastic is 18 to 30 layers thick. Wrapped bales can be grabbed on their diameters with some care.

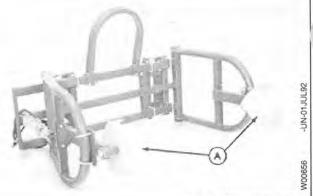
The hugger can be mounted for either right or left-hand operation. Assembly instructions are in the loader predelivery manual.



WX,725,A,32 -19-05AUG93

#### **ROUND BALE UNROLLER**

The round bale unroller (A) is an attachment for the bale hugger.



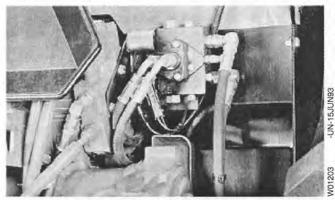
WX,640,A,156 -19-20JUL92

## ELECTRO-HYDRAULIC VALVE FOR ATTACHMENT OPERATION

An electro-hydraulic valve can be used to operate a grapple or bale hugger. The valve is connected directly to the tractor hydraulic system. The control switch mounts in the top of the loader joystick control lever.

Electro-hydraulic valve fits only 6000 and 7000 Series Tractors.



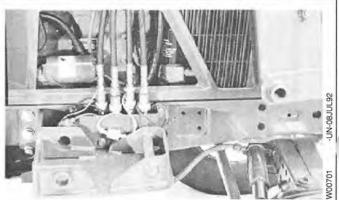


7000 Series Tractor

WX,720,A,123 -19-30JUL93

#### MID-MOUNT HYDRAULIC COUPLERS 6000 AND 7000 SERIES TRACTORS

Mid-mount couplers allow easy access to hose couplers when attaching and detaching the loader. They are included with the parking stand attachment.



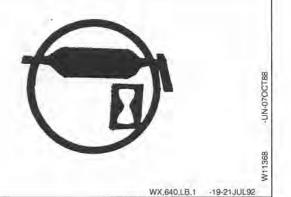
WX 7200M 34 -19-30 JUL 93

## **Lubrication and Maintenance**

#### OBSERVE SERVICE INTERVALS

Using tractor hour meter as a guide, perform services at the hourly intervals indicated on following pages.

IMPORTANT: Recommended service intervals are for average conditions. Service MORE OFTEN if loader is operated under adverse conditions.



#### GREASE

Use grease based on the expected air temperature range during the service interval.

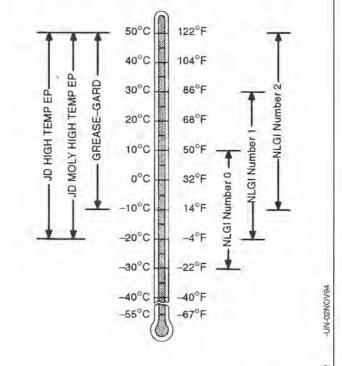
The following greases are preferred:

- John Deere MOLY HIGH TEMPERATURE EP GREASE
- John Deere HIGH TEMPERATURE EP GREASE
- John Deere GREASE-GARD™

Other greases may be used if they meet one of the following:

- SAE Multipurpose EP Grease with a maximum of 5% molybdenum disulfide
- SAE Multipurpose EP Grease

Greases meeting Military Specification MIL-G-10924F may be used as arctic grease.



DX,GREAT

-19-02NOV9

S

#### ALTERNATIVE AND SYNTHETIC LUBRICANTS

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual. Some John Deere lubricants may not be available in your location. Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements listed in this manual.

DX.ALTER

-19-01EER94

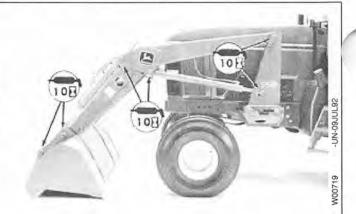
## Lubrication and Maintenance/10 and 50 Hour

#### LUBRICATE LOADER



CAUTION: Help prevent personal injury caused by unexpected movement of the loader. Lower loader to the ground, engage parking brake or place transmission in "PARK", shut off engine and remove key before lubricating or servicing the loader.

- 1. Dump bucket and lower to the ground.
- 2. Lubricate twelve fittings, six on each side of loader.
- 3. For loader with QUIK-CHANGE bucket attach, lubricate bucket latch pins.



WX,620,LB,2 -19-24JUL92

#### LUBRICATE GRAPPLE

- 1. Lubricate two fittings on back of pivot arms.
- 2. Apply grease, oil or spray lubricant to cylinder pivots.

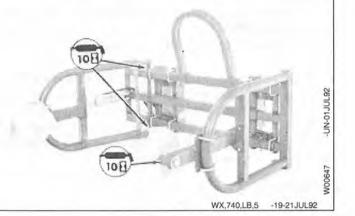


WX,740,LB,4 -19-21JUL92

VOORER

#### LUBRICATE BALE HUGGER

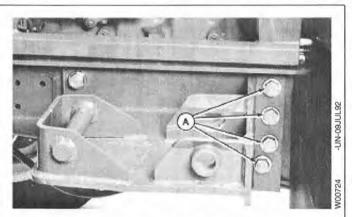
- 1. Lubricate two fittings on hydraulic clamp arm.
- 2. For hugger equipped with bale unroller attachment, lubricate fitting on on each roller.

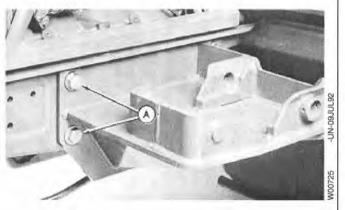


#### CHECK MOUNTING FRAME HARDWARE 620 LOADER 6000 SERIES TRACTORS

IMPORTANT: Help prevent damage to the tractor or loader caused by operating with loose mounting hardware. Tighten loader mounting frame hardware after the first 10 hours of operation and again after every 50 hours.

Tighten six M20 x 45 flange cap screws (A) on each frame to 620 N⋅m (457 lb-ft) torque.





WX,620,LB,3 -19-06FEB95

#### CHECK MOUNTING FRAME HARDWARE 620 LOADER ALL TRACTORS EXCEPT 6000 SERIES

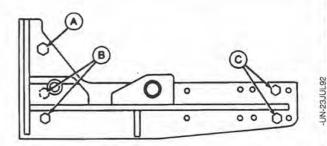
IMPORTANT: Help prevent damage to the tractor or loader caused by operating with loose mounting hardware. Tighten loader mounting frame hardware after the first 10 hours of operation and again after

every 50 hours.

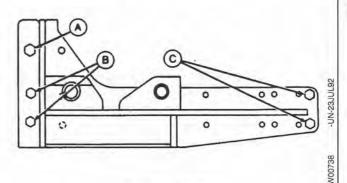
HARDWARE LOCATION

TORQUE SPECIFICATION

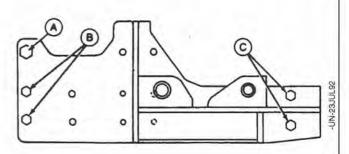
A . . . . . . . 495 N·m (365 lb-ft)
B . . . . . 278 N·m (205 lb-ft)
C . . . . . 278 N·m (205 lb-ft)



3 Cylinder Tractor



4 Cylinder Tractor



Sound-Gard Body Tractor

WX,620,LB,4 -19-06FEB95

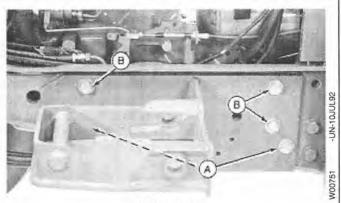
W00739

W00736

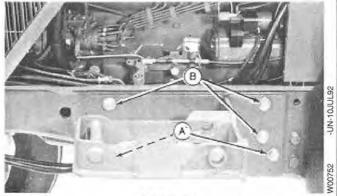
#### CHECK MOUNTING FRAME HARDWARE 720, 725 LOADERS 6000, 7000 SERIES TRACTORS

IMPORTANT: Help prevent damage to the tractor or loader caused by operating with loose mounting hardware. Tighten loader mounting frame hardware after the first 10 hours of operation and again after every 50 hours.

Tighten M20 x 60 flange cap screws on each frame to 620 N·m (457 lb-ft) torque. Cap screws (A) are in threaded holes, cap screws (B) have nuts behind them.



720 Loader



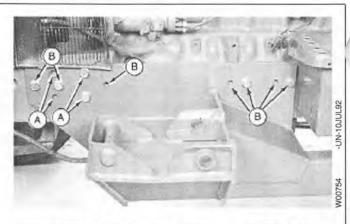
725 Loader

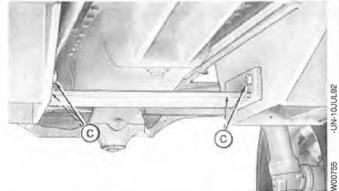
WX,720,LB,5 -19-06FEB95

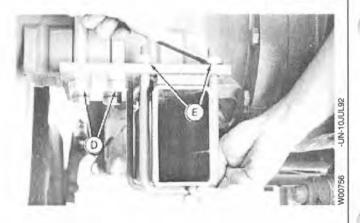
## CHECK MOUNTING FRAME HARDWARE 720 LOADER, REAR ATTACH FRAME 30, 40, 50, 55 SERIES UTILITY TRACTORS

IMPORTANT: Help prevent damage to the tractor or loader caused by operating with loose mounting hardware. Tighten loader mounting frame hardware after the first 10 hours of operation and again after every 50 hours.

HAR	31	יכ	V	I	١F	R	Ξ												TOF	RQUE		
LOC		1.	П	C	10	1													SPE	CIFI	CATI	ON
Α																			235	N·m	(173	lb-ft)
																						Ib-ft)
																						Ib-ft)
D	(	V	۷i	th	1	R	0	L	L.	·G	À	F	RE	))					407	N·m	(300	Ib-ft)
	(	V	/i	th	0	ut	1	R	0	L	L-	G	A	F	RE	))			365	N·m	(270	Ib-ft)
E																	÷		100	N·m	(75	Ib-ft)







WX,620,LB,6 -19-24JUL92

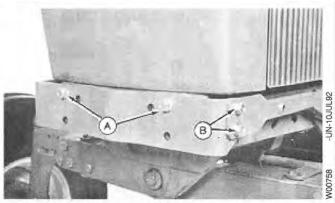
# CHECK MOUNTING FRAME HARDWARE 720 LOADER, FRONT ATTACH FRAME 725 LOADER

20, 30, 40, 50, 55 ROW CROP TRACTORS

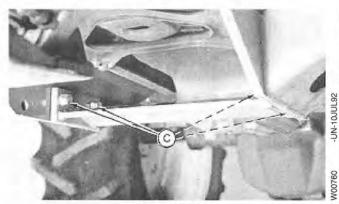
IMPORTANT: Help prevent damage to the tractor or loader caused by operating with loose mounting hardware. Tighten loader mounting frame hardware after the first 10 hours of operation and again after every 50 hours.

HARDWARE	TORQUE
LOCATION	SPECIFICATION

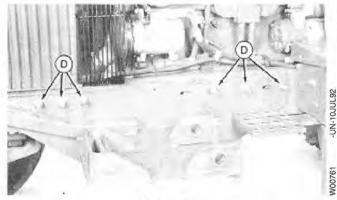
Α			į,	,	353	N-m	(260	Ib-ft)
В					315	N·m	(232	Ib-ft)
C	+				315	N-m	(232	Ib-ft)
D					315	N·m	(232	Ib-ft)



Front Cross Tie



Lower Tie Bar



Side Frame

WX,620,LB,7 -19-30JUL93

# **Troubleshooting**

## HYDRAULIC TROUBLESHOOTING

Symptom	Problem	Solution
Slow or jerky operation	Cold hydraulic oil.	Run engine and cycle loader.
		Use low viscosity hydraulic oil in cold weather. See your tractor operator's manual or your John Deere dealer.
	Low hydraulic oil.	See tractor operator's manual
	Poppet style selective control valve set slow.	Increase to fastest rate. See your tractor operator's manual.
	Engine speed too slow.	Increase engine speed.
	Internal cylinder leakage.	Test cylinders for internal leaks. Install cylinder repair kit. See your John Deere dealer.
	Faulty tractor hydraulic system.	See your tractor operator's manual or your John Deere dealer.
	"Flow checking" or faulty quick-connect coupler.	Replace coupler. See your John Deere dealer.
	Overloading bucket, grapple or fork.	Reduce load. See how lift capacity is determined in Specifications section.
	Incorrect control cable adjustment on loader operated with independent control valve.	See Install Control Cable in Service section for adjustments or see your John Deere dealer.
Oil leaks	Loose connections.	Tighten fittings.
	External cylinder leakage.	Install cylinder repair kit. See your John Deere dealer.
	External loader control valve leakage.	Install repair kit. See your John Deere dealer.

Continued on next page

## Troubleshooting

Symptom	Problem	Solution
Lack of lift capacity	Load is greater than loader lift capacity.	See how lift capacity is determined in Specifications section.
	Internal lift cylinder leakage.	Test cylinders for internal leaks. Install cylinder repair kit. See your John Deere dealer.
Heavily loaded loader lowers when control is moved to raise position.	Lift check in control valve not working properly.	Repair control valve. See your John Deere dealer.
Heavily loaded bucket or attachment dumps when control is moved to roll back position.	Lift check in control valve not working properly.	Repair control valve. See your John Deere dealer.
Loader operation does not correspond with control lever movement.	Hydraulic hoses connected wrong.	Correct hoses connections. See Identifying Hose Connections in Service section.
	Defective quick-connect coupler.	Replace coupler. See your John Deere dealer.
Loader settles from raised position.	Internal leak in control valve or cylinder.	Test for leaks. Install repair parts. See your John Deere dealer.  WX.640.T.1 -19-21JUL92

## MECHANICAL TROUBLESHOOTING

Symptom	Problem	Solution
Excessive wear on bucket cutting edge.	Too much down pressure when scraping on concrete surface.	Replace cutting edge. Use "FLOAT" position.
		Use heavy duty bucket equipped with reversible bolt on cutting edge attachment.
Bucket cutting edge bent down.	Edge has contacted a solid object while forward scraping with bucket dumped more than 15° below level.	Position bucket at 0 to 15° below level to protect the cutting edge while forward scraping.
	Lifting loads concentrated on bucket edge.	Distribute loads over wider area.
Bucket cutting edge bent up.	Edge has contacted a solid object while scraping or leveling rearward with bucket dumped more than 40° below level.	Position bucket at 40° or less below level to protect the cutting edge while rearward leveling. Use "FLOAT" to reduce down pressure.

WX,640,T,2 -19-21JUL92

## Service

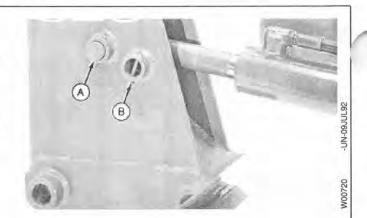
## **USE CORRECT LIFT CYLINDER POSITION**

A

CAUTION: 6000 and 7000 Series Tractors have higher hydraulic operating pressures. Moving the cylinder from position (A) to position (B) will increase the lift capacity of the loader beyond the safe limit. This excess lift capacity could result in tractor instability causing tractor rollover and personal injury or death.

IMPORTANT: Operating loader on a 6000 or 7000
Series Tractors with lift cylinder in position (B) will give it too much lift capacity. Tractor or loader damage could result.

- There are two lift cylinder positions:
- Use hole (A) for 6000 and 7000 Series Tractors.
- Use hole (B) for all tractors except 6000 and 7000 Series Tractors.



WX,720,SV,2 -19-30JUL93

#### ADJUST BUCKET QUIK-CHANGE LATCHES

- 1. Adjust latch plate:
- Attach bucket to loader. (See procedure below.)
- Raise and level bucket off ground.
- Push latch bracket against block (A).
- Tighten hardware 215 N·m (160 lb-ft).

NOTE: Latch pins have a feature that allows them to drop automatically when the bucket is disconnected. The dropped pins allow the operator to attach the bucket without getting off the tractor. This feature requires adjustment at initial setup.

2. Install stud (B) in latch pins using 10 mm nuts.

IMPORTANT: If stud is adjusted too long, it may be damaged when bucket is disconnecting.

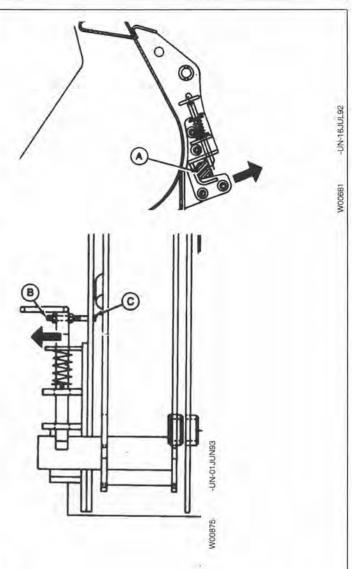
- 3. Adjust stud length:
- With latch in down position, pull latch handle toward center.
- Adjust nuts until end of stud is flush with plate (C).
- Tighten stud.

#### BUCKET DETACHING PROCEDURE:

- Raise and level bucket 400 mm (16 in.) off ground.
- Lift and lock latch pins in raised position.
- Extend bucket cylinders slowly until front of bucket is on ground.
- Lower loader and back away.

#### BUCKET ATTACHING PROCEDURE:

- Extend bucket cylinders to angle links and align with bucket pins.
- Raise loader until links engage pins and then quickly roll back bucket. Latch pins should latch onto loader.
- Raise loader high enough to see that latch pins have dropped.

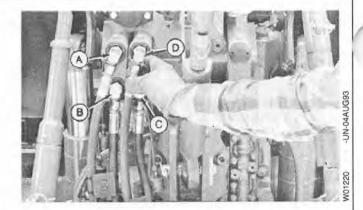


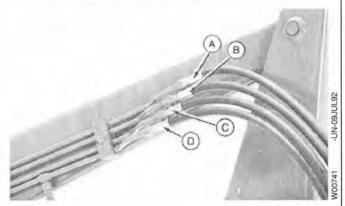
WX,740PDI,83 -19-03FEB98

#### IDENTIFYING HOSE CONNECTIONS SCV OPERATED LOADER 6000 SERIES TRACTOR

## HYDRAULIC OIL CIRCUIT ON LOADER

A . . . . . Bucket Cylinder Head End
B . . . . Bucket Cylinder Rod End
C . . . Lift Cylinder Head End
D . . . Lift Cylinder Rod End





WX,720,SV,6 -19-06FEB95

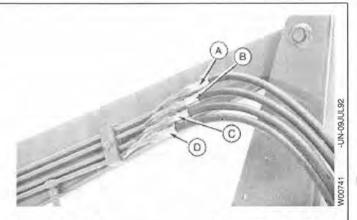
#### IDENTIFYING HOSE CONNECTIONS SCV OPERATED LOADER 7000 SERIES TRACTOR

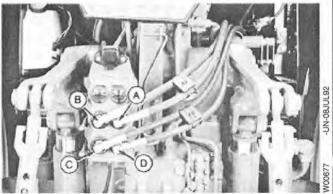
HYDRAULIC OIL CIRCUIT ON LOADER

SCV OPERATING LEVER

A . . . Bucket Cylinder Head End . . . . . Right-hand or center B . . . Bucket Cylinder Rod End . . . . . Right-hand or center

C ..., Lift Cylinder Head End ..... Left-hand D ... Lift Cylinder Rod End ..... Left-hand





WX,620,SV,5 -19-06FEB95

#### IDENTIFYING HOSE CONNECTIONS SCV OPERATED LOADER 20, 30, 40, 50, 55 SERIES TRACTOR

NOTE: Coupler location varies with tractor model. For all coupler locations, make connections so that bucket operation is controlled by the right-hand SCV lever on tractors with two SCV's (center lever on tractors with three SCV's) and raise/lower operation is controlled by the left-hand lever.

HYDRAULIC OIL	scv
CIRCUIT ON LOADER	OPERATING LEVER

A ... Bucket Cylinder Head End ... Right-hand or center B ... Bucket Cylinder Rod End ... Right-hand or center C ... Lift Cylinder Head End ... Left-hand D ... Lift Cylinder Rod End ... Left-hand

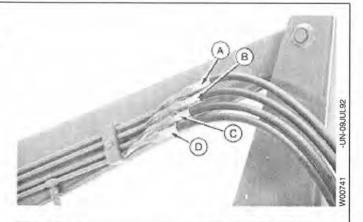


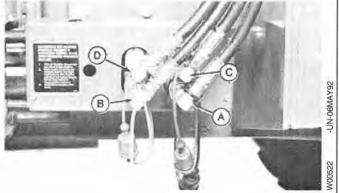
WX,620,SV,7 -19-06FEB95

#### IDENTIFYING HOSE CONNECTIONS INDEPENDENT VALVE OPERATED LOADER 2-SPOOL VALVE 20, 30, 40, 50, 55 SERIES TRACTOR

HYDRAULIC OIL CIRCUIT ON LOADER

A ... Bucket Cylinder Head End
B ... Bucket Cylinder Rod End
C ... Lift Cylinder Head End
D ... Lift Cylinder Rod End





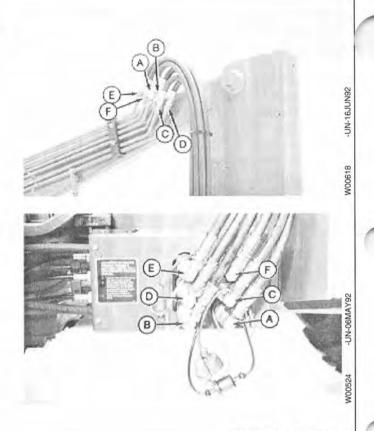
WX,620,SV,8 -19-06FEB95

### IDENTIFYING HOSE CONNECTIONS INDEPENDENT VALVE OPERATED LOADER 3-SPOOL VALVE 20, 30, 40, 50, 55 SERIES TRACTOR

#### HYDRAULIC OIL CIRCUIT ON LOADER

A . . . Bucket Cylinder Head End B . . . Bucket Cylinder Rod End C . . Lift Cylinder Head End
D . . Lift Cylinder Rod End
E . . . Attachment Cylinder Head End

F . . . Attachment Cylinder Rod End



#### REPLACING HYDRAULIC HOSES, COUPLERS, TUBING OR CONNECTORS



CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

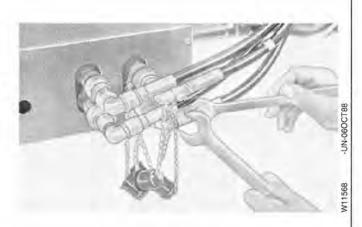


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- 1. Relieve hydraulic pressure:
- For loader operated with tractor selective control valves, shut off engine and move levers.
- For loader operated with an independent control valve on 20, 30, 40, 50, 55 series tractor, dump bucket 15° from level and lower until some weight of tractor is on loader. Shut off engine. Move lever rearward and to left-hand side.

IMPORTANT: To prevent twisting the hydraulic tubes, use two wrenches when removing or connecting hoses to tubes.

- 2. Remove clamps and ties as required. Plastic ties cannot be used again.
- Remove and replace hydraulic components. A 13/16 and a 7/8 in. wrench is required for most hose connections.
- 4. Route or tie hoses to avoid contact with loader frame.
- 5. Cycle loader and check for leaks.
- 6. Check tractor hydraulic oil level. See your tractor operator's manual.



WX.520.SV.20 -19-20.JUL92

#### SERVICING TRACTOR AIR INTAKE FILTER

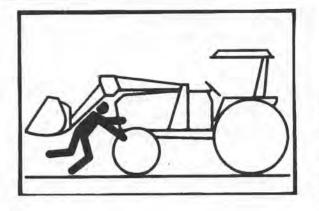


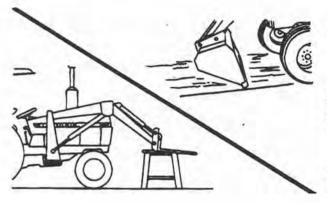
CAUTION: Help prevent bodily injury from accidental lowering of loader. Do not service air filter with loader elevated and unsupported. Engage parking brake and/or place transmission in "PARK", lower loader to ground or on safety stands, shut off tractor engine, relieve hydraulic pressure and remove key.

Normally, access to filter can be made with bucket flat on ground.

However, due to tractor size and tire variations, it may be necessary to do one of the following:

- · Dump bucket fully and lower loader to ground.
- If equipped with a forklift or bale fork, raise loader to required height and place safety stands under frame of attachment. Lower attachment on stands, relieve hydraulic pressure and ensure weight of loader is fully supported by safety stands.
- If not equipped with an attachment, raise loader to required height and place safety stands under "boom arms". Lower loader on stands, relieve hydraulic pressure and ensure weight of loader is fully supported by safety stands.





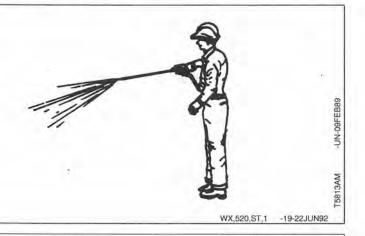
WX,520,SV,21 -19-22JUN92

-UN-04DEC91

# Storing the Loader

#### PREPARING LOADER FOR STORAGE

- 1. Clean the loader thoroughly. Dirt attracts moisture which causes rust.
- 2. Replace missing or damaged parts including hoses, hardware and decals.
- 3. Paint loader where needed.
- Lubricate all grease fittings.



#### STORING THE LOADER

NOTE: Loader may be stored attached or detached from tractor.

- 1. Store loader in a dry, protected place. If stored outside, cover with a waterproof material.
- Retract all hydraulic cylinders, if possible. If not, coat exposed cylinder rods with grease to prevent rusting.

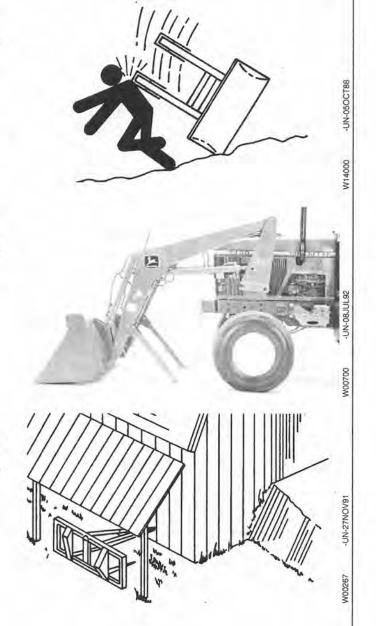


CAUTION: Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death. Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.

- 3. For detached loader:
- · Install dust covers on hose ends.
- Place hoses on loader. DO NOT lay them on the ground.



CAUTION: To help prevent personal injury from exposed fork tines, always store bale fork with tines pointed down, or against bale, building or other stable object.



WX,620,ST,2 -19-24JUL92

## **Crime Prevention**

#### HELP PREVENT CRIME

You can help take a bite out of crime by properly documenting ownership and discouraging theft.



DX,CRPRV.A -19-03MAR93

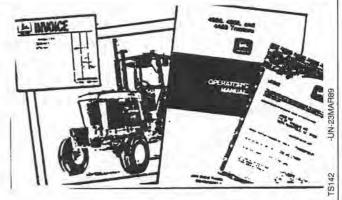
#### RECORD IDENTIFICATION NUMBERS

- 1. Mark your machines with your own unique numbering system.
- 2. Record the Product Identification Number (PIN) of the unit and also individual component identification numbers for engines, axles, pumps, etc. Include the PIN numbers on all documentation, such as insurance, financial, and warranty papers.



#### KEEP PROOF OF OWNERSHIP

- 1. Take color photographs from several angles of each machine.
- 2. Maintain an up-to-date inventory of all your machines.
- 3. Keep your documented identification numbers, color photographs, and inventory in a safe, secure location.

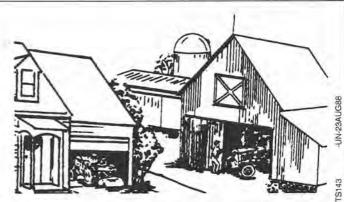


DX.CRPRV.C

#### PARK INDOORS OUT OF SIGHT

Make machines hard to move:

- · Park large equipment in front of exits.
- · Lower equipment to the ground. Remove key.
- · Remove battery when unit is in storage.
- · Lock cab doors, windows, and vandal-proof devices.
- · Set wheels in widest position making loading more difficult. Lock building.

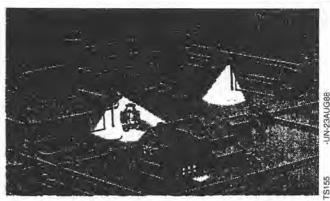


PN=76

#### WHEN PARKING OUTDOORS

Make machines hard to move:

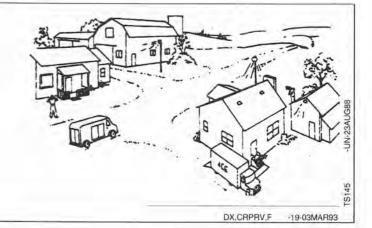
- · Park in a well-lighted, fenced area.
- · Lower all equipment to the ground.
- Remove ignition key. Remove battery when unit is in storage.
- · Lock cab doors, windows, and vandal-proof devices.
- Set wheels in widest position making loading more difficult.



CRPRV.E -19-03MAR93

### REDUCE VANDALISM

- 1. Install vandal-proof devices.
- 2. Participate in a neighborhood watch program. Take written notes of suspicious vehicles or persons and report your findings to law enforcement agency.
- 3. Regularly verify that identification plates have not been removed. If they have, notify law enforcement agency. Order duplicate plates from your dealer.



#### REPORT THEFTS IMMEDIATELY

- Immediately notify your local law enforcement agency and insurance agent.
- Provide a complete description of the machine, all of the documented identification numbers and color photographs.
- Request verification of the identification numbers after they have been entered with any regional or national crime information center. Double check the numbers to be sure they are correct.
- 4. Notify your John Deere dealer of the theft and request that its loss be posted with full description and identification numbers.



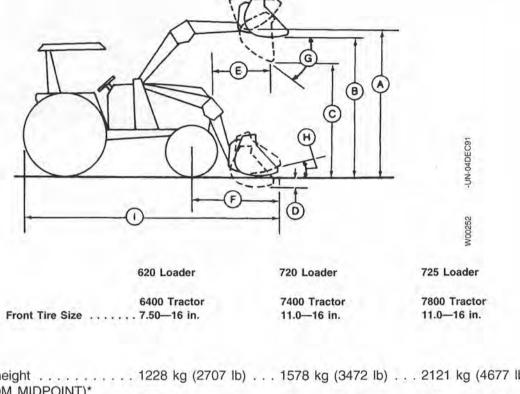
DX.CRPBV.G

-19-03MAR93

# **Specifications**

#### LOADER CAPACITY AND DIMENSIONS

Capacity



Lift capacity to full height	1228 kg (2707 lb)	. 1578 kg (3472 lb) 2121 kg (4677 lb)
(BUCKET BOTTOM MIDPOINT)*		
Breakout capacity	20 160 N (4532 lb) .	. 27 044 N (6080 lb) 27 620 N (6209 lb)
Dimensions		

Dillic	11310113			
(A	) Maximum lift height	3206 mm (126 in.)	3357 mm (132 in.) .	. 4116 mm (162 in.)
(B	Clearance with bucket level	3067 mm (121 in.)	3156 mm (124 in.) .	. 3975 mm (156 in.)
(C	C) Clearance with bucket dumped	2597 mm (102 in.)	2780 mm (109 in.) .	. 3560 mm (140 in.)
(D	) Digging depth	506 mm (19.9 in.) .	136 mm (5.3 in.)	. 284 mm (11.2 in.)
(E	Reach at full height, dumped	925 mm (36.4 in.) .	955 mm (37.6 in.)	. 714 mm (28.1 in.)

Dimensions are in compliance with ASAE Standard S301.2.

<sup>\*</sup> Capacities are shown measured to bucket bottom midpoint. Objects such as round bales or bins on a forklift move the weight out from this point, decreasing lift capacity.

# LOADER HYDRAULIC CYLINDER DIMENSIONS

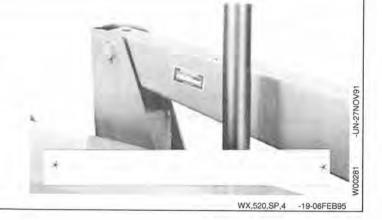
	620 Loader	720 Loader	725 Loader
Lift cylinder			
Bore	63 mm (2.5 in.)	63 mm (2.5 in.)	70 mm (2.8 in.)
Stroke	730 mm (28.7 in.)	855 mm (33.7 in.)	960 mm (37.8 in.)
Rod Diameter	40 mm (1.6 in.)	40 mm (1.6 in.)	45 mm (1.8 in.)
Closed Length	1070 mm (42.1 in.)	1058 mm (41.7 in.)	1166 mm (45.9 in.)
Bucket cylinder			
Bore	63 mm (2.5 in.)	63 mm (2.5 in.)	63 mm (2.5 in.)
Stroke	622 mm (24.5 in.)	622 mm (24.5 in.)	622 mm (24.5 in.)
Rod Diameter			40 mm (1.6 in.)
Closed Length	833 mm (32.8 in.)	833 mm (32.8 in.)	

(Specifications and design subject to change without notice)

WX,720,SP,2 -19-30JUL93

## RECORD PRODUCT IDENTIFICATION NUMBER

Record all 13 characters of the product identification number in the space provided.



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Parking stands	G
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Round bale hugger	Extreme pressure and multipurpose 60-1 Guard, hood
Teeth for H.D. bucket	H
Telescoping boom	Hood guard
В	Operation
Bale fork	Indicator, level
Level indicator	
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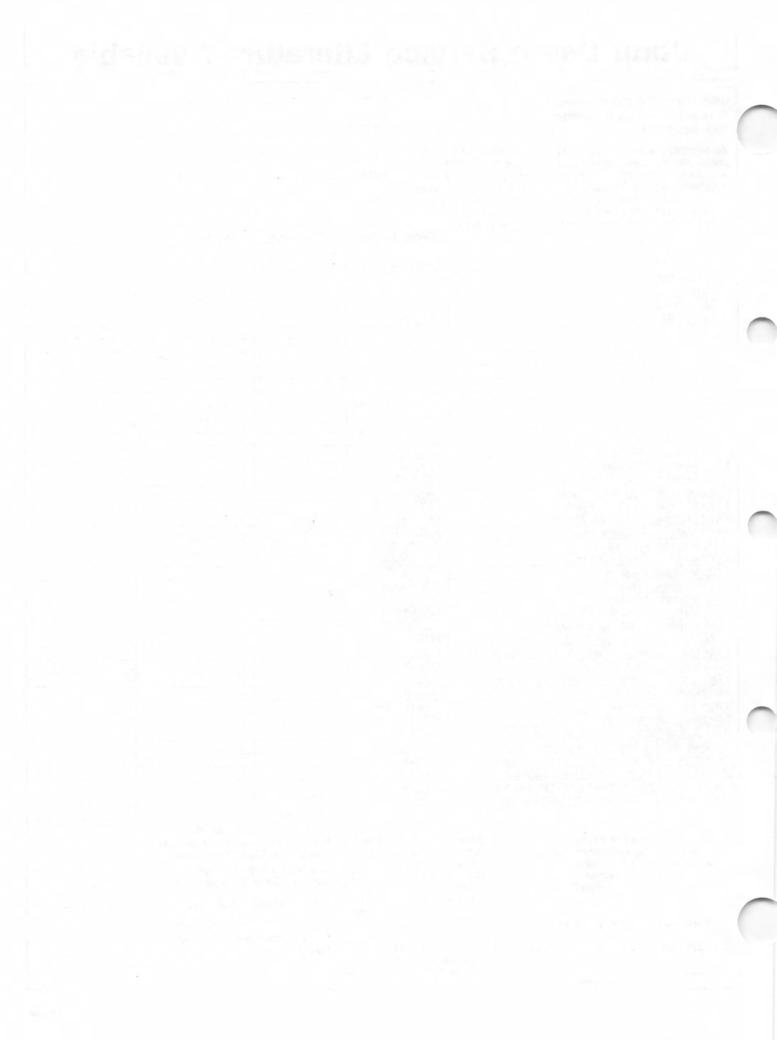
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Round bale hugger
Round bale maximum weight, with bale
fork
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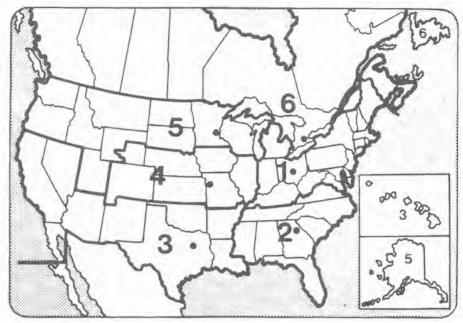
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Your dealer is the best and fastest source to solving any problems you may experience with your product.

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- -Date of purchase
- -Nature of problem
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- 3. If unable to resolve, see the dealership manager. Explain the problem and request assistance.
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- If a problem is not resolved to your satisfaction, contact the appropriate John Deere sales branch for your area and ask to speak with the division aftermarket manager. (See map.)

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